MOTIFSIM - MOTIF SIMilarity Detection Tool

Version 2.2

INPUT

Input Parameters

Number of files:	1
Number of top significant motifs:	10
Number of best matches:	5
Similarity cutoff >=	0.75
Matching motif database:	UniProbe Mus Musculus
Motif tree:	Yes
Combined similar motifs:	Yes
Output file type:	All
Output file format:	All

Input files and motif counts

File name	Count of motifs	Dataset number
CisFinder_DM721_Cluster.txt	153	1

RESULTS

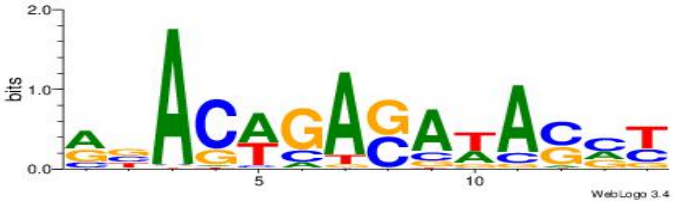
Top 10 Significant Motifs - Global Matching (Highest to Lowest)

There is no global matching for 1 motif file.

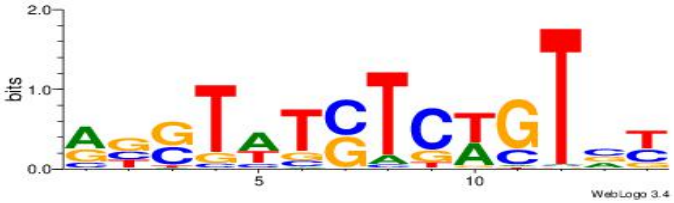
Significant Motifs - Global and Local Matching (Highest to Lowest)

Dataset #: 1 Motif ID: 108 Motif name: C108

Original motif Consensus sequence: RBACWGASAWASVY



Reverse complement motif Consensus sequence: MVSTWTSTCWGTE



Best Matches for Significant Motif ID 108 (Highest to Lowest)

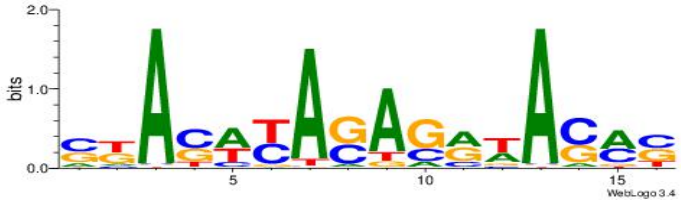
Dataset #:	1
Motif ID:	125
Motif name:	C125
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	3.79502e-05

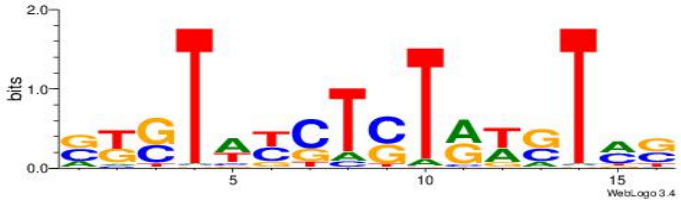
Alignment:

```
SKASWYASAGRWASMS
--RBACWGASAWASVY
```

Original motif Consensus sequence: SKASWYASAGRWASMS

Reverse complement motif Consensus sequence: SYSTWKCTSTMWSTRS



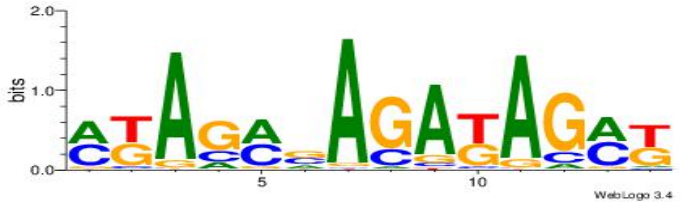


Dataset #:	1
Motif ID:	21
Motif name:	C021
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.00124361

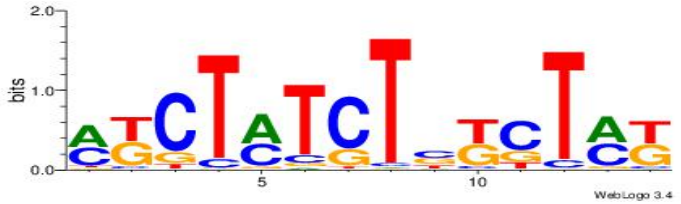
Alignment:

```
MKAGMVAGAKAGMK
RBACWGASAWASVY
```

Original motif Consensus sequence: MKAGMVAGAKAGMK



Reverse complement motif Consensus sequence: RYCTRTCTVYCTRY



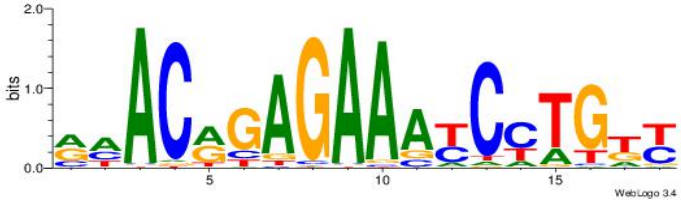
Dataset #:	1
Motif ID:	53

Motif name:	C053
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	14
Similarity score:	0.00887812

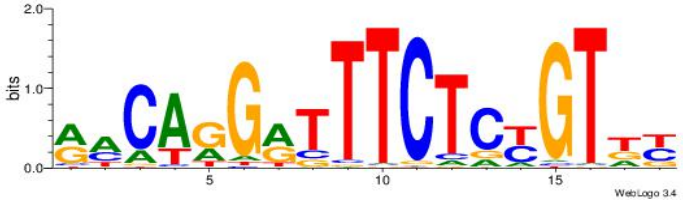
Alignment:

```
RMACRGAGAAAYCCTGKY
RBACWGASAWASVY----
```

Original motif Consensus sequence: RMACRGAGAAAYCCTGKY



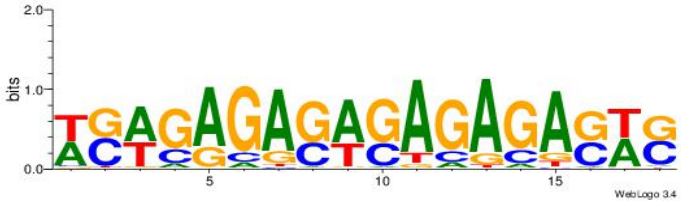
Reverse complement motif Consensus sequence: MRCAGGMTTTCTCKGTYK



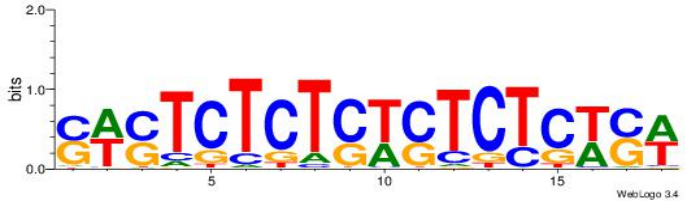
Dataset #:	1
Motif ID:	17
Motif name:	C017
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	14
Similarity score:	0.0104617

Alignment:
WSWGAGASWSAGAGASWS
----RBACWGASAWASVY

Original motif Consensus sequence: WSWGAGASWSAGAGASWS



Reverse complement motif Consensus sequence: SWSTCTCTSWSTCTCWSW

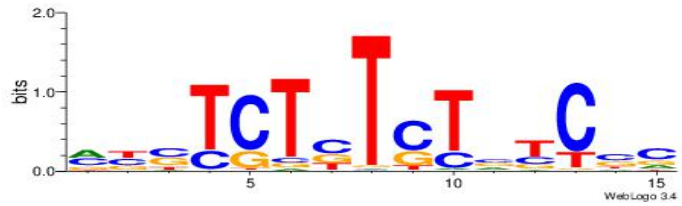


Dataset #:	1
Motif ID:	70
Motif name:	C070
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.0119575

Alignment:
GVGABAGAVAGASVK
-RBACWGASAWASVY

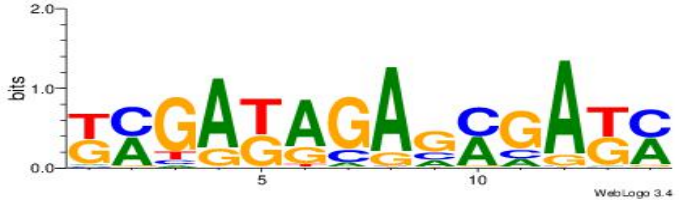
Original motif Consensus sequence: GVGABAGAVAGASVK

Reverse complement motif Consensus sequence: RBSTCTVTCTBTCV

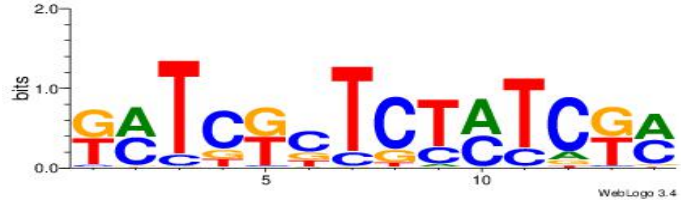


Dataset #: 1 **Motif ID: 25** **Motif name: C025**

Original motif Consensus sequence: KMGAKAGAGMGAKM



Reverse complement motif Consensus sequence: RRTCRCTCTRTCRF



Best Matches for Significant Motif ID 25 (Highest to Lowest)

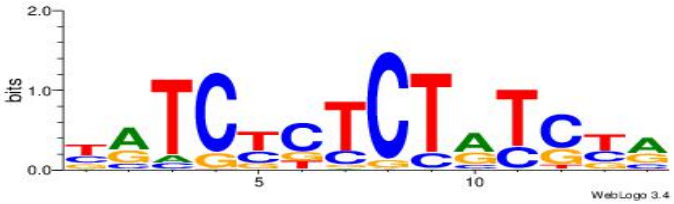
Dataset #:	1
Motif ID:	78
Motif name:	C078
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.00248665

Alignment:

```
YRGAYAGAGRGAYR
KMGAKAGAGMGAKM
```

Original motif Consensus sequence: YRGAYAGAGRGAYR

Reverse complement motif Consensus sequence: KMTCKCTCTMTCK

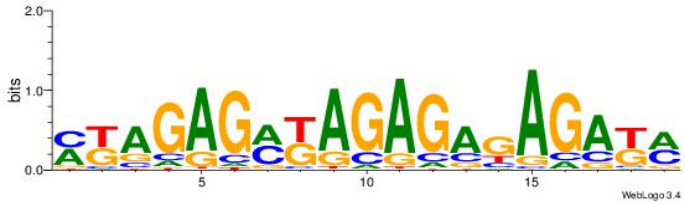


Dataset #:	1
Motif ID:	12
Motif name:	C012
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.00375955

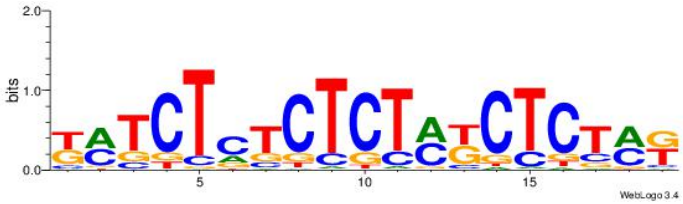
Alignment:

```
MKAGAGMKAGAGAGAGAKM
-----KMGAKAGAGMGAKM
```

Original motif Consensus sequence: MKAGAGMKAGAGAGAGAKM



Reverse complement motif Consensus sequence: YRTCTCTCTCTRYCTCTRR

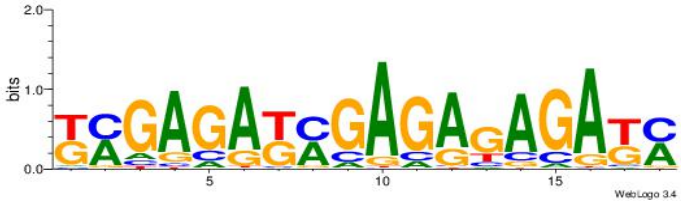


Dataset #:	1
Motif ID:	11
Motif name:	C011
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	14
Similarity score:	0.00885823

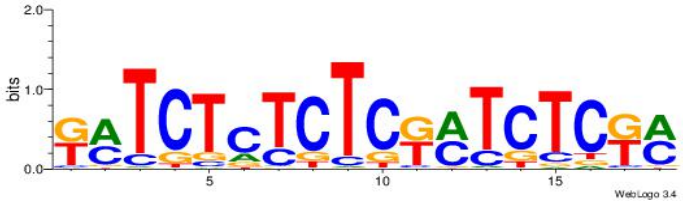
Alignment:

```
KMGAGAKMGAGAGAGAKM
KMGAKAGAGMGAKM----
```

Original motif Consensus sequence: KMGAGAKMGAGAGAGAKM



Reverse complement motif Consensus sequence: RRTCTCTCTCRRTCTCRR



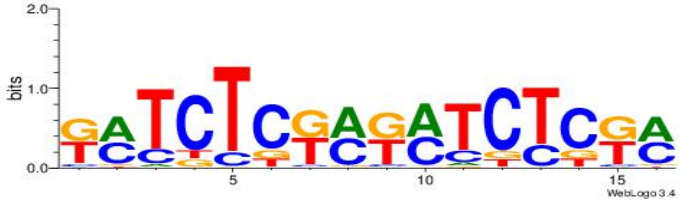
Dataset #:	1
Motif ID:	26
Motif name:	C026
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3

Number of overlap: 14
Similarity score: 0.0116747

Alignment:
KMGAGAKMKMGAGAKM
KMGAKAGAGMGAKM--

Original motif Consensus sequence: KMGAGAKMKMGAGAKM

Reverse complement motif Consensus sequence: RRTCTCRRRRTCTCRR

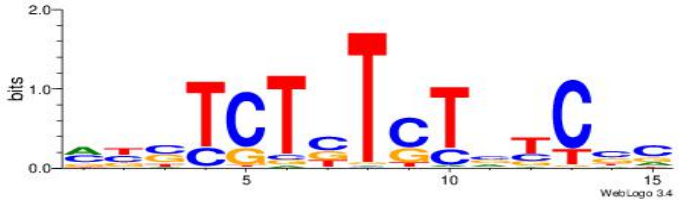


Dataset #: 1
Motif ID: 70
Motif name: C070
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 14
Similarity score: 0.0139232

Alignment:
GVGABAGAVAGASVK
KMGAKAGAGMGAKM-

Original motif Consensus sequence: GVGABAGAVAGASVK

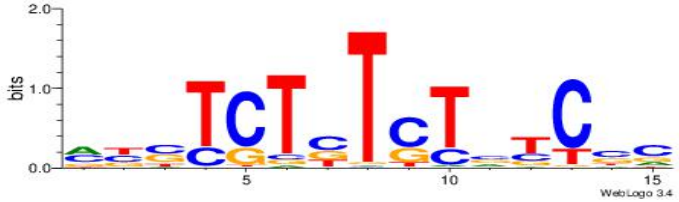
Reverse complement motif Consensus sequence: RBSTCTVTCTBTCV



Dataset #: 1 **Motif ID: 70** **Motif name: C070**

Original motif Consensus sequence: GVGABAGAVAGASVK

Reverse complement motif Consensus sequence: RBSTCTVTCTBTCV



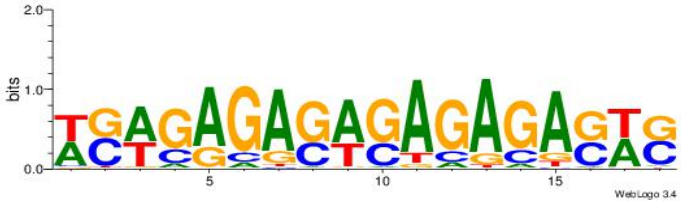
Best Matches for Significant Motif ID 70 (Highest to Lowest)

Dataset #:	1
Motif ID:	17
Motif name:	C017
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	15
Similarity score:	0.00174543

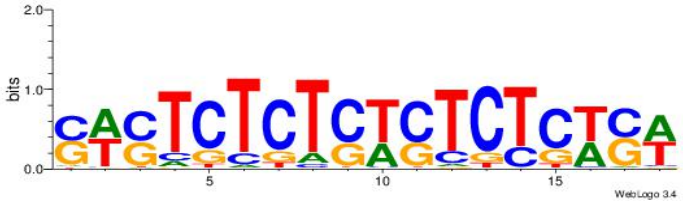
Alignment:

```
WSWGAGASWSAGAGASWS
---GVGABAGAVAGASVK
```

Original motif Consensus sequence: WSWGAGASWSAGAGASWS



Reverse complement motif Consensus sequence: SWSTCTCTSWSTCTCWSW

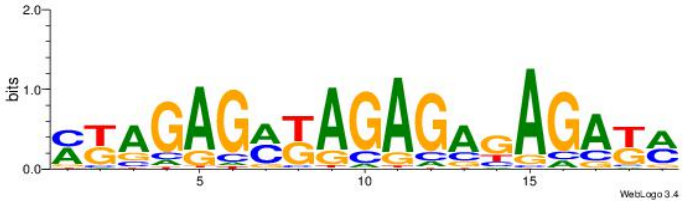


Dataset #:	1
Motif ID:	12
Motif name:	C012
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	15
Similarity score:	0.0027757

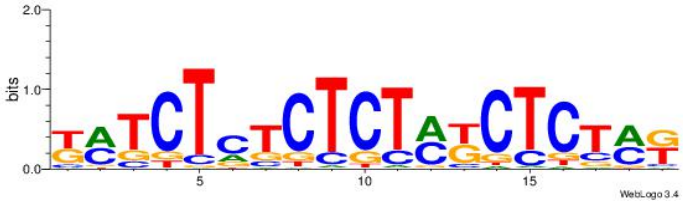
Alignment:

```
MKAGAGMKAGAGAGAGAKM
---GVGABAGAVAGASVK-
```

Original motif Consensus sequence: MKAGAGMKAGAGAGAGAKM



Reverse complement motif Consensus sequence: YRTCTCTCTCTRYCTCTRR

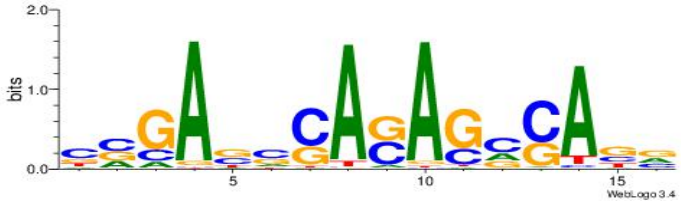


Dataset #:	1
Motif ID:	28
Motif name:	C028
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	15
Similarity score:	0.00931002

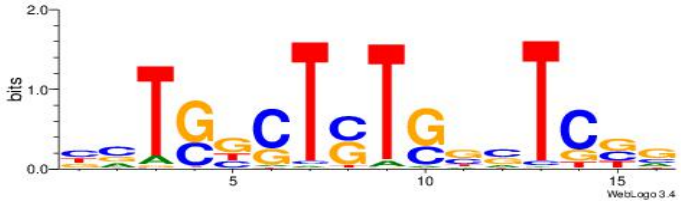
Alignment:

```
BVGASSCASAGVSABV
GVGABAGAVAGASVK-
```

Original motif Consensus sequence: BVGASSCASAGVSABV



Reverse complement motif Consensus sequence: VBTSVCTSTGSSTCVB

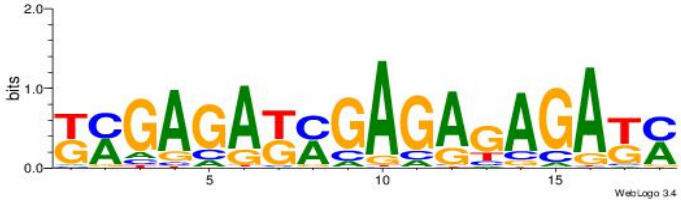


Dataset #:	1
Motif ID:	11
Motif name:	C011
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3

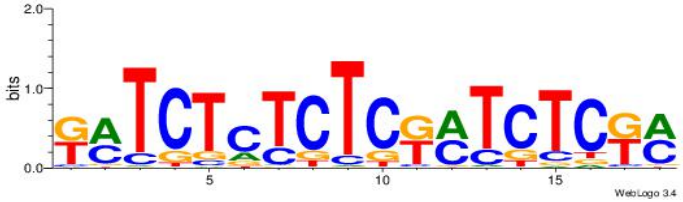
Number of overlap: 15
Similarity score: 0.0117141

Alignment:
KMGAGAKMGAGAGAGAKM
--GVGABAGAVAGASVK-

Original motif Consensus sequence: KMGAGAKMGAGAGAGAKM



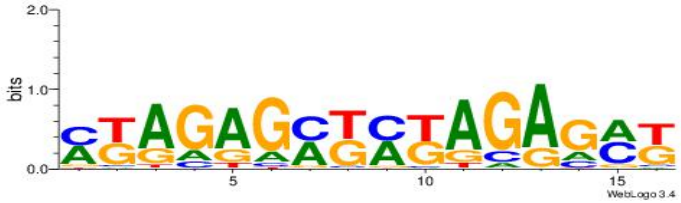
Reverse complement motif Consensus sequence: RRTCTCTCTCRRTCTCRR



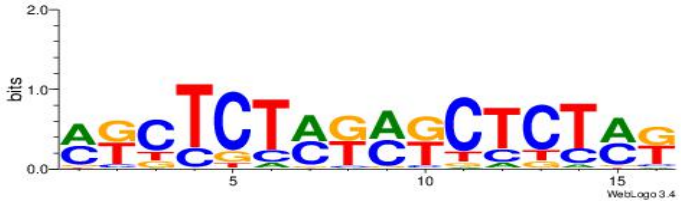
Dataset #: 1
Motif ID: 55
Motif name: C055
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 15
Similarity score: 0.0176331

Alignment:
MKAGAGMKMKAGAGMK
-GVGABAGAVAGASVK

Original motif Consensus sequence: MKAGAGMKMKAGAGMK



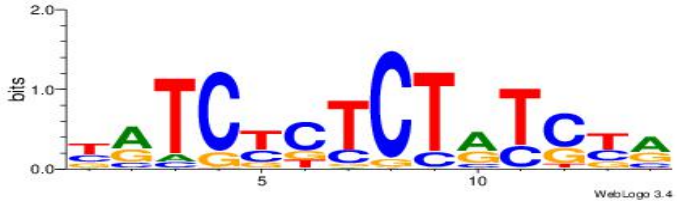
Reverse complement motif Consensus sequence: RYCTCTRRRRCTCTRR



Dataset #: 1 Motif ID: 78 Motif name: C078

Original motif Consensus sequence: YRGAYAGAGRGAYR

Reverse complement motif Consensus sequence: KMTCKCTCTMTCK



Best Matches for Significant Motif ID 78 (Highest to Lowest)

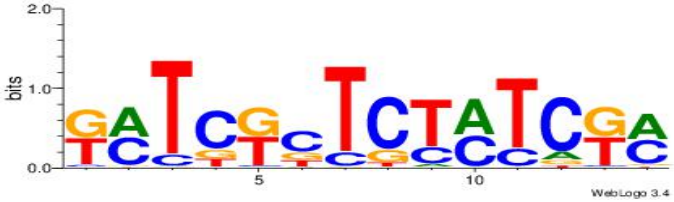
Dataset #:	1
Motif ID:	25
Motif name:	C025
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0

Alignment:

KMGAKAGAGMGAKM
YRGAYAGAGRGAYR

Original motif Consensus sequence: KMGAKAGAGMGAKM

Reverse complement motif Consensus sequence: RRTCRCTCTRTCRR

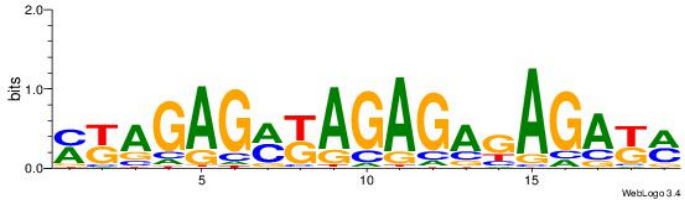


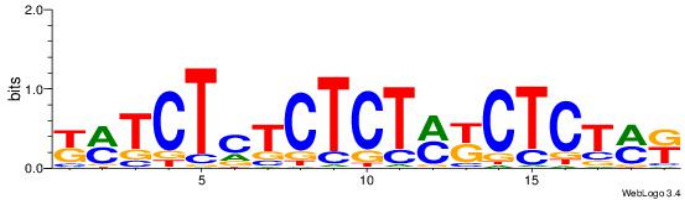
Dataset #:	1
Motif ID:	12
Motif name:	C012
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	14
Similarity score:	0.00828206

Alignment:
YRTCTCTCTCTRYCTCTRR
--KMTCKCTCTMTCKM---

Original motif Consensus sequence: MKAGAGMKAGAGAGAGAKM

Reverse complement motif Consensus sequence:
YRTCTCTCTCTRYCTCTRR





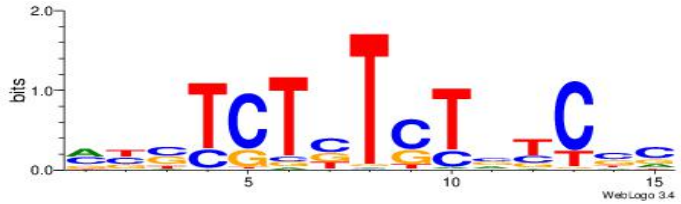
Dataset #:	1
Motif ID:	70
Motif name:	C070
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.00930595

Alignment:

```
GVGABAGAVAGASVK
YRGAYAGAGRGAYR-
```

Original motif Consensus sequence: GVGABAGAVAGASVK

Reverse complement motif Consensus sequence: RBSTCTVTCTBTCV



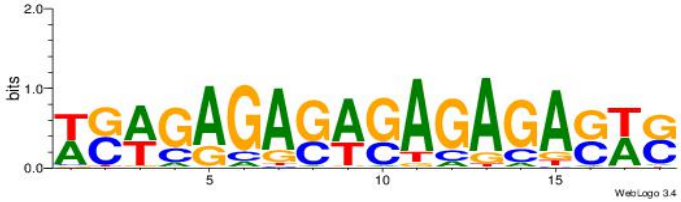
Dataset #:	1
Motif ID:	17

Motif name:	C017
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.0146835

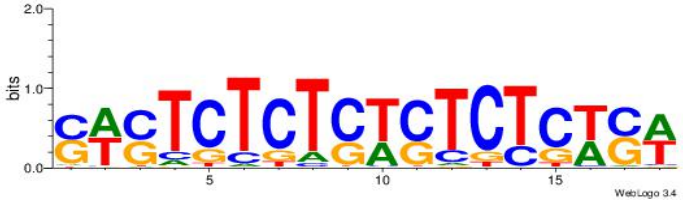
Alignment:

```
SWSTCTCTSWSTCTCWSW
---KMTCKCTCTMTCKM-
```

Original motif Consensus sequence: WSWGAGASWSAGAGASWS



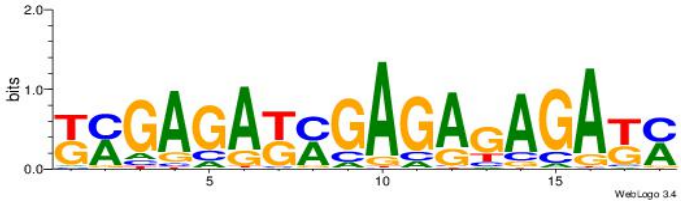
Reverse complement motif Consensus sequence: SWSTCTCTSWSTCTCWSW



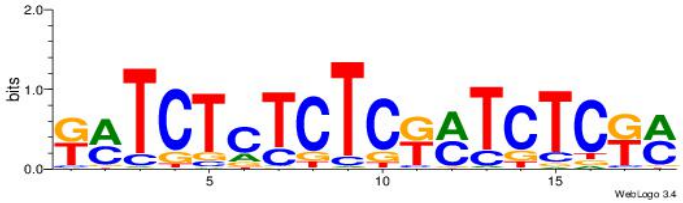
Dataset #:	1
Motif ID:	11
Motif name:	C011
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	14
Similarity score:	0.0193986

Alignment:
KMGAGAKMGAGAGAGAKM
----YRGAYAGAGRGAYR

Original motif Consensus sequence: KMGAGAKMGAGAGAGAKM

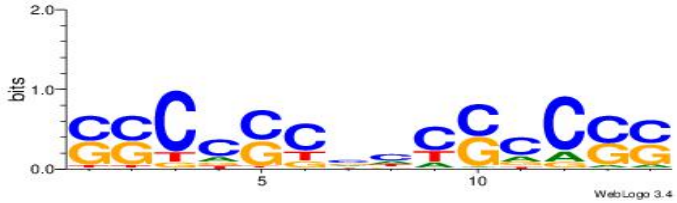


Reverse complement motif Consensus sequence: RRTCTCTCTCRRTCTCRR

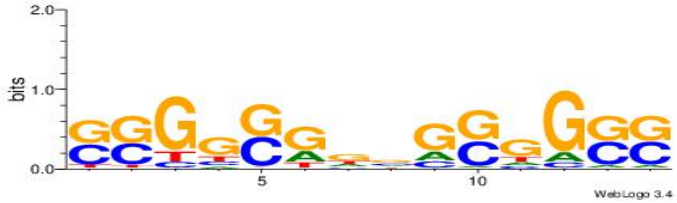


Dataset #: 1 Motif ID: 23 Motif name: C023

Original motif Consensus sequence: SSCCSCBHCSCCSS



Reverse complement motif Consensus sequence: SSGGSGDBGSGGS



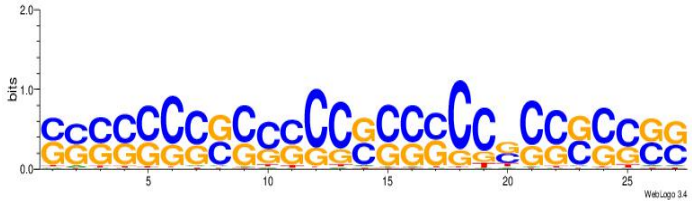
Best Matches for Significant Motif ID 23 (Highest to Lowest)

Dataset #:	1
Motif ID:	4
Motif name:	C004
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward

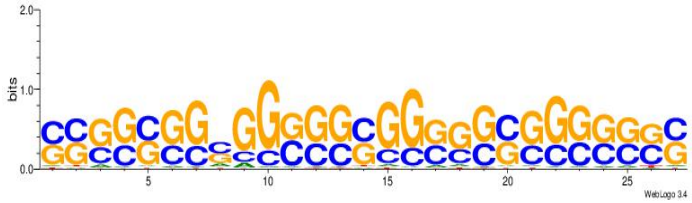
Position number: 2
Number of overlap: 14
Similarity score: 0.00461109

Alignment:
SSSSSSGSGGSSSSGGSSSSSGSSSSS
----------SSGGSGDBGSGGSS-

Original motif Consensus sequence:
SSSSSCSSSSSCCSSSSCCSCSSSSSS



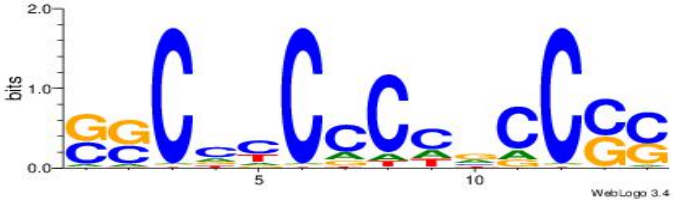
Reverse complement motif Consensus sequence:
SSSSSSGSGGSSSSGGSSSSSGSSSSS



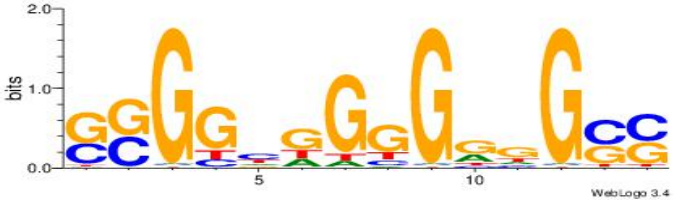
Dataset #: 1
Motif ID: 104
Motif name: C104
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 14
Similarity score: 0.00651203

Alignment:
SSGGHGGGGKGGSS
SSGGSGDBGSGGSS

Original motif Consensus sequence: SSCCYCCCCDCCSS



Reverse complement motif Consensus sequence: SSGGHGGGGKGG

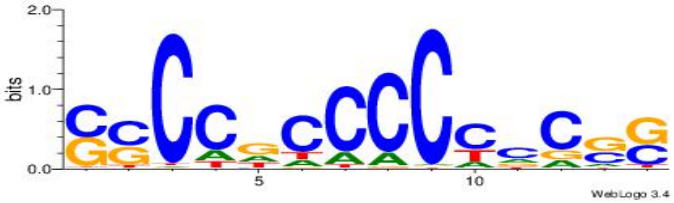


Dataset #:	1
Motif ID:	54
Motif name:	C054
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.0125092

Alignment:

```
SSCCDCCCCCCCSS
SSCCSCBHCSCCSS
```

Original motif Consensus sequence: SSCCDCCCCCCCSS



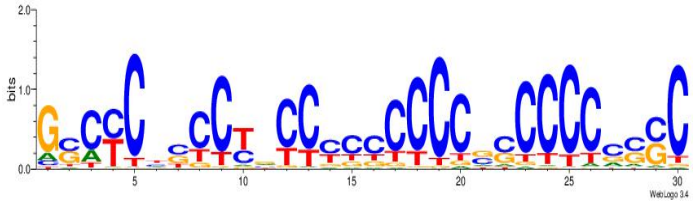
Reverse complement motif Consensus sequence: SSGGGGGGGHGG

Dataset #:	1
Motif ID:	3
Motif name:	C003
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	15
Number of overlap:	14
Similarity score:	0.0162482

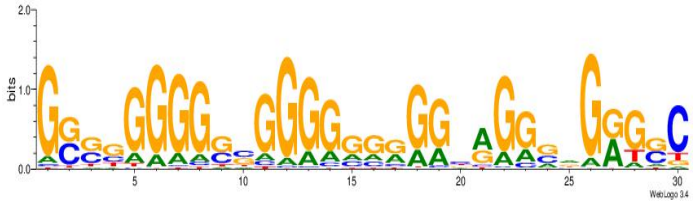
Alignment:

```
GSCYCHSCCYVCCYCCCCCCSSCCCCCSSC
--------------SSCCSCBHCSCCSS--
```

Original motif Consensus sequence:
GSCYCHSCCYVCCYCCCCCCSSCCCCCSSC



Reverse complement motif Consensus sequence:
GSSGGGGGSSGGGGGGKGGVMGGSHGKGSC

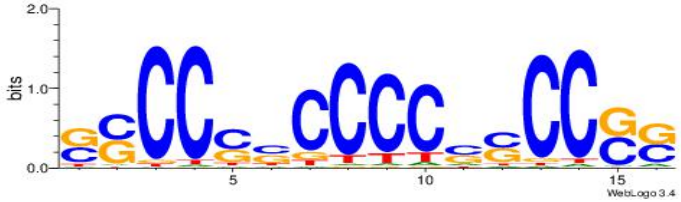


Dataset #:	1
Motif ID:	8
Motif name:	C008
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2

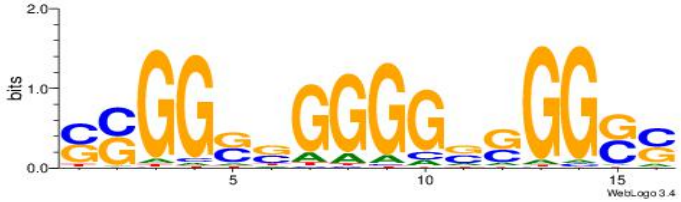
Number of overlap: 14
Similarity score: 0.0169024

Alignment:
SSGGSSGGGGSSGGSS
-SSGGSGDBGSGGSS-

Original motif Consensus sequence: SSCCSSCCCCSSCCSS

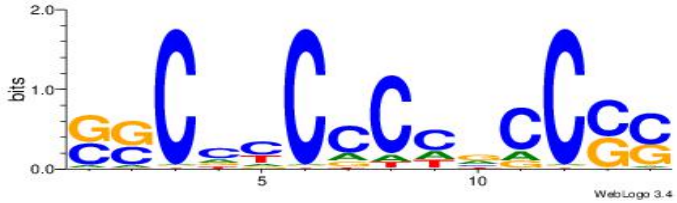


Reverse complement motif Consensus sequence: SSGGSSGGGGSSGGSS

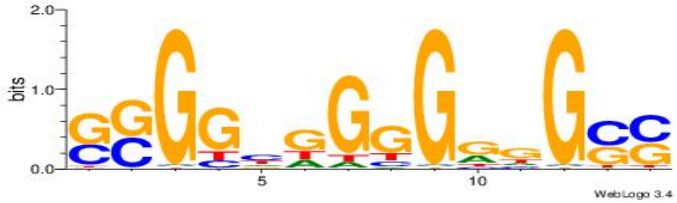


Dataset #: 1 Motif ID: 104 Motif name: C104

Original motif Consensus sequence: SSCCYCCCCDCCSS



Reverse complement motif Consensus sequence: SSGGHGGGGKGG



Best Matches for Significant Motif ID 104 (Highest to Lowest)

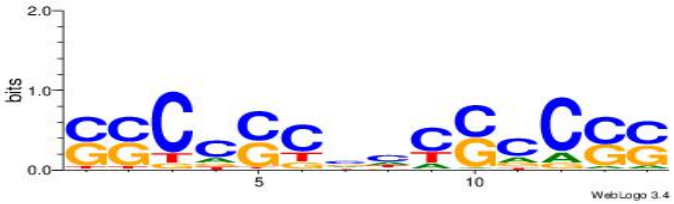
Dataset #: 1
Motif ID: 23
Motif name: C023
Matching format of first motif: Reverse Complement

Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.00165547

Alignment:

SSGGSGDBGSGGSS
SSGGHGGGGKGGSS

Original motif Consensus sequence: SSCCSCBHCSCCSS



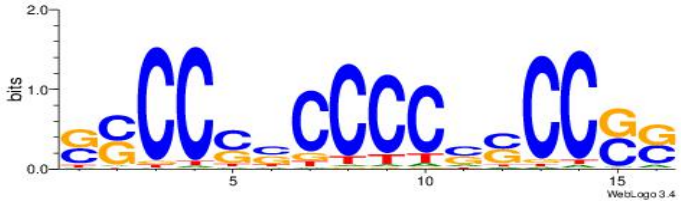
Reverse complement motif Consensus sequence: SSGGSGDBGSGGS

Dataset #:	1
Motif ID:	8
Motif name:	C008
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.00956764

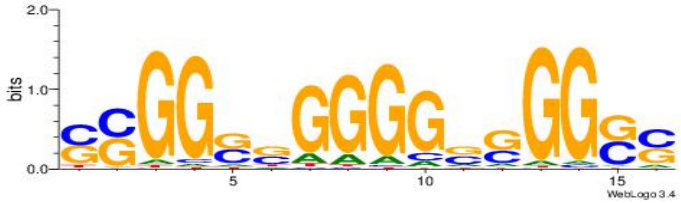
Alignment:

SSCCSSCCCCSSCCSS
-SSCCYCCCCDCCSS-

Original motif Consensus sequence: SSCCSSCCCCSSCCSS



Reverse complement motif Consensus sequence: SSGGSSGGGGSSGGSS

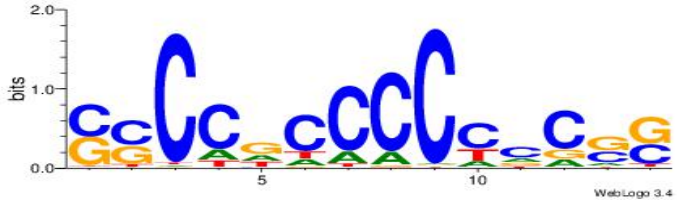


Dataset #:	1
Motif ID:	54
Motif name:	C054
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.0123202

Alignment:
SSGGGGGGGHGGSS
SSGGHGGGGKGGSS

Original motif Consensus sequence: SSCCDCCCCCCCSS

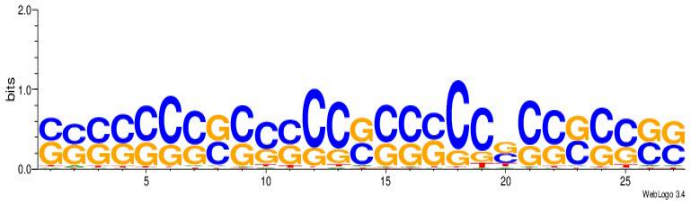
Reverse complement motif Consensus sequence: SSGGGGGGGHGG



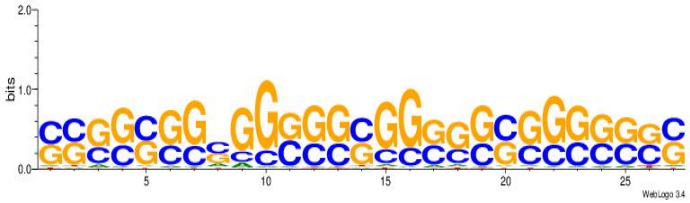
Dataset #: 1
Motif ID: 4
Motif name: C004
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 4
Number of overlap: 14
Similarity score: 0.0160908

Alignment:
SSSSSSGSGGSSSSGGSSSSSGSSSSS
---SSGGHGGGGKGGSS----------

Original motif Consensus sequence:
SSSSSCSSSSSCCSSSSCCSCSSSSSS



Reverse complement motif Consensus sequence:
SSSSSSGSGGSSSSGGSSSSSGSSSSS



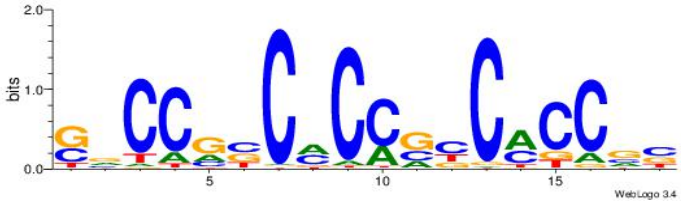
Dataset #: 1

Motif ID:	37
Motif name:	C037
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	14
Similarity score:	0.0188565

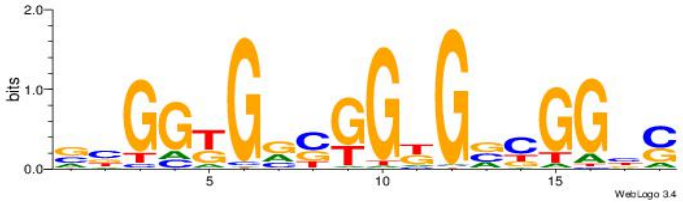
Alignment:

```
SVCCGBCMCCSYCMCCVB
-SSCCYCCCCDCCSS---
```

Original motif Consensus sequence: SVCCGBCMCCSYCMCCVB

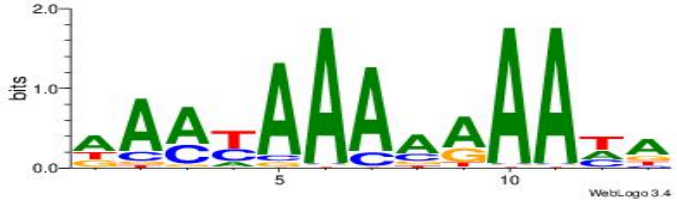


Reverse complement motif Consensus sequence: BVGGYGKSGGYGBCGGVS

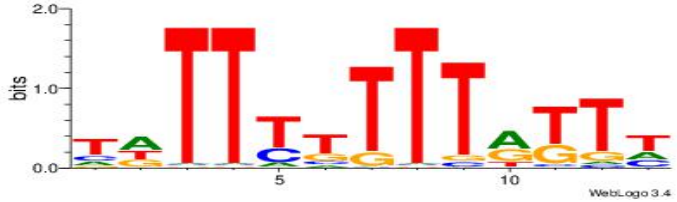


Dataset #: 1 Motif ID: 18 Motif name: C018

Original motif Consensus sequence: AAMYAAAAAAAHA



Reverse complement motif Consensus sequence: THTTTTTTTMYTT



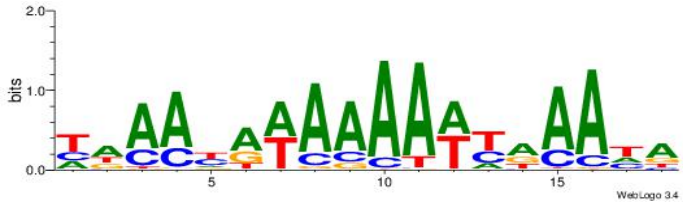
Best Matches for Significant Motif ID 18 (Highest to Lowest)

Dataset #:	1
Motif ID:	24
Motif name:	C024
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.00879109

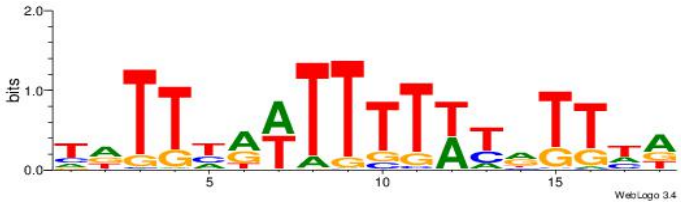
Alignment:

```
THTTDMWTTTTWKMTTDA
----THTTTTTTTMYTT-
```

Original motif Consensus sequence: TDAAYRWAAAAWYDAAHA



Reverse complement motif Consensus sequence: THTTDMWTTTTWKMTTDA



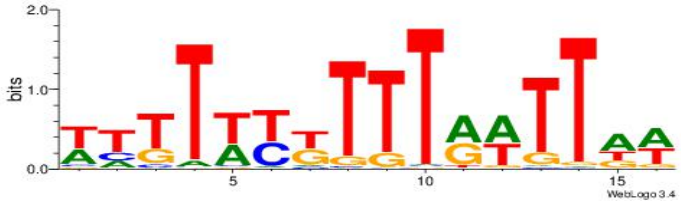
Dataset #:	1
Motif ID:	33
Motif name:	C033
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement

Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.0101683

Alignment:
WTTTWKYTTTMWTTWW
-THTTTTTTTMYTT--

Original motif Consensus sequence: WWAAWYAAAMRWAAAW

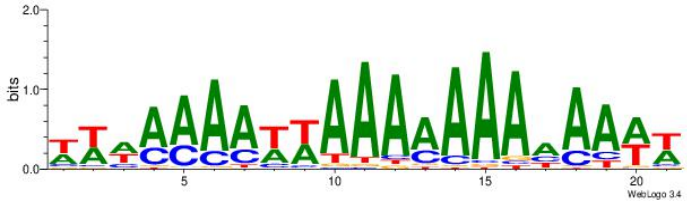
Reverse complement motif Consensus sequence: WTTTWKYTTTMWTTWW



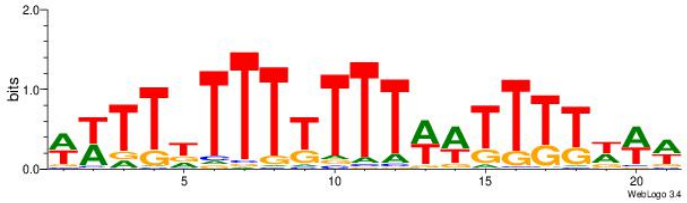
Dataset #:	1
Motif ID:	10
Motif name:	C010
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	13
Similarity score:	0.0128694

Alignment:
WWWAAAAWWAAAAAAAAAAWW
-----AAMYAAAAAAAHA---

Original motif Consensus sequence: WWWAAAAWWAAAAAAAAAWW



Reverse complement motif Consensus sequence: WWTTTTTTTTTWWTTTTWWW



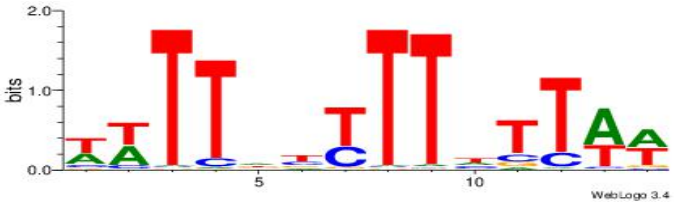
Dataset #:	1
Motif ID:	131
Motif name:	C131
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.0136352

Alignment:

```
WWAADAARVHAAWW
-AAMYAAAAAAAHA
```

Original motif Consensus sequence: WWAADAARVHAAWW

Reverse complement motif Consensus sequence: WWTTHBKTTDTTW

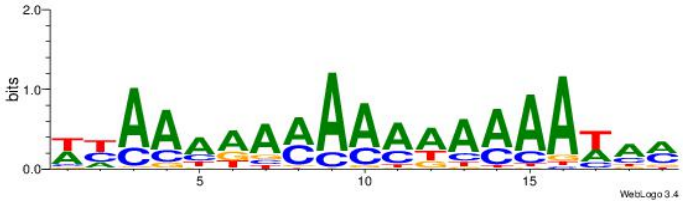


Dataset #:	1
Motif ID:	30
Motif name:	C030
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	13
Similarity score:	0.0161198

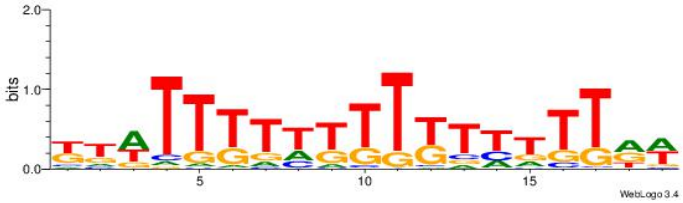
Alignment:

```
YTWTTTTTTTTYTTTTTMW
-THTTTTTTTMYTT-----
```

Original motif Consensus sequence: WYAAAAAMAAAAAAAAWAM



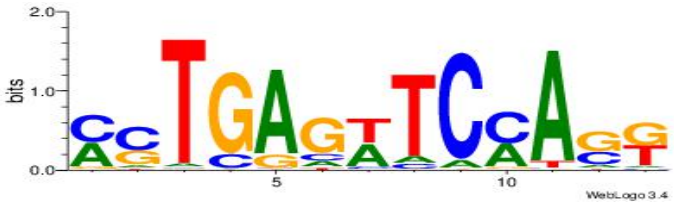
Reverse complement motif Consensus sequence: YTWTTTTTTTTYTTTTTMW

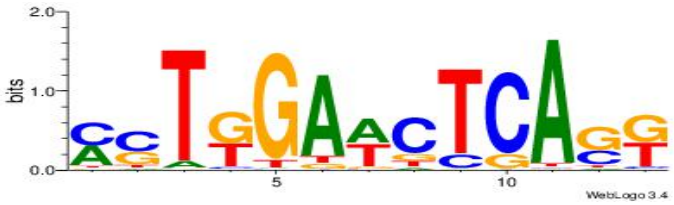


Dataset #: 1 Motif ID: 65 Motif name: C065

Original motif Consensus sequence: MSTGAGWTCMASK

Reverse complement motif Consensus sequence: YSTRGAWCTCASR





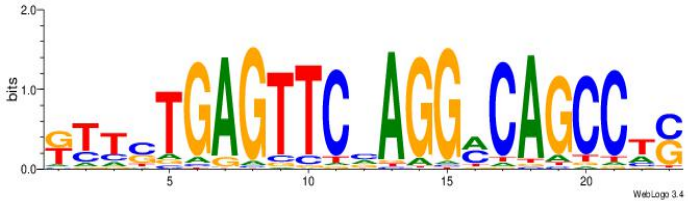
Best Matches for Significant Motif ID 65 (Highest to Lowest)

Dataset #:	1
Motif ID:	7
Motif name:	C007
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	9
Number of overlap:	13
Similarity score:	0.00190829

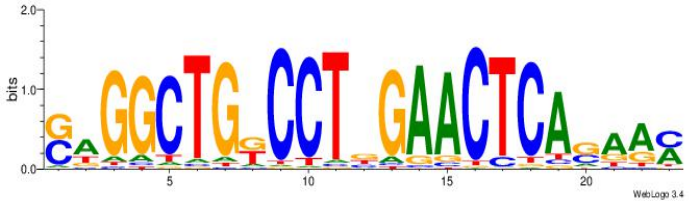
Alignment:

```
SAGGCTGYCCTVGAACTCASAAY
--------YSTRGAWCTCASR--
```

Original motif Consensus sequence: KTTSTGAGTTCVAGGMCAGCCTS



Reverse complement motif Consensus sequence: SAGGCTGYCCTVGAACTCASAAY

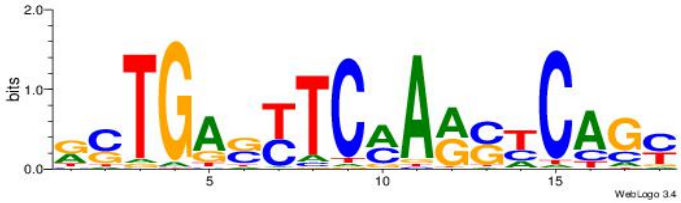


Dataset #:	1
Motif ID:	40
Motif name:	C040
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	13
Similarity score:	0.0036319

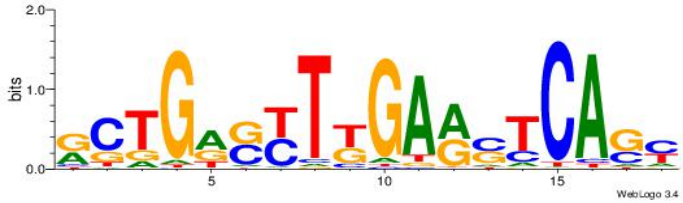
Alignment:

```
RSTGASYTCMARSYCAGY
MSTGAGWTCMASK-----
```

Original motif Consensus sequence: RSTGASYTCMARSYCAGY



Reverse complement motif Consensus sequence: KCTGMSKTYGAMSTCASM

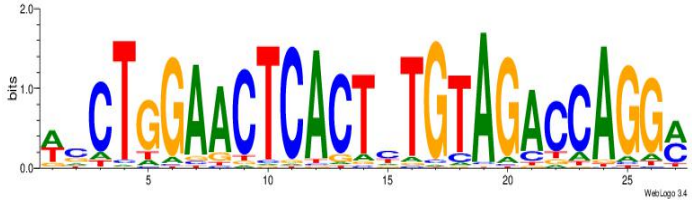


Dataset #:	1
Motif ID:	13
Motif name:	C013
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	14

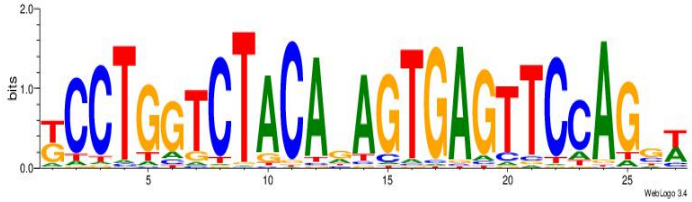
Number of overlap: 13
Similarity score: 0.0058849

Alignment:
WVCTGGAACTCACTHTGTAGACCAGGM
----------YSTRGAWCTCASR-

Original motif Consensus sequence:
WVCTGGAACTCACTHTGTAGACCAGGM



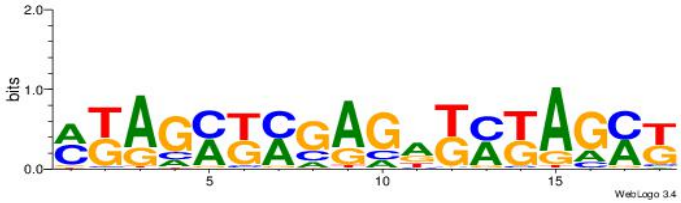
Reverse complement motif Consensus sequence:
YCCTGGTCTACADAGTGAGTTCCAGVW



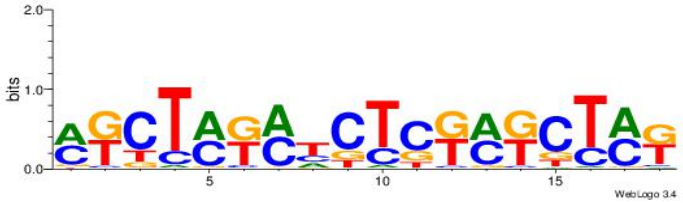
Dataset #: 1
Motif ID: 36
Motif name: C036
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 5
Number of overlap: 13
Similarity score: 0.0245754

Alignment:
RRCTRRRTCTCRRRCTRY
-YSTRGAWCTCASR----

Original motif Consensus sequence: MKAGMKMGAGAKMKAGMK



Reverse complement motif Consensus sequence: RRCTRRRTCTCRRRCTRY

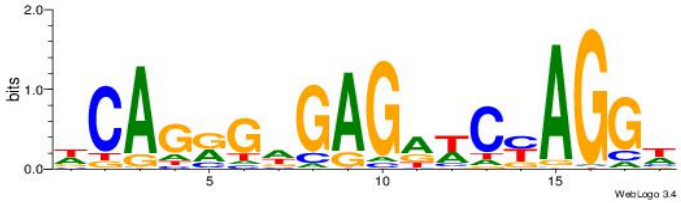


Dataset #:	1
Motif ID:	132
Motif name:	C132
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	13
Similarity score:	0.0272182

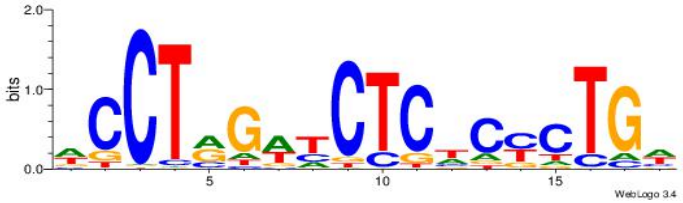
Alignment:

```
WCAGRGWGAGAWCYAGGW
----MSTGAGWTCMASK-
```

Original motif Consensus sequence: WCAGRGWGAGAWCYAGGW

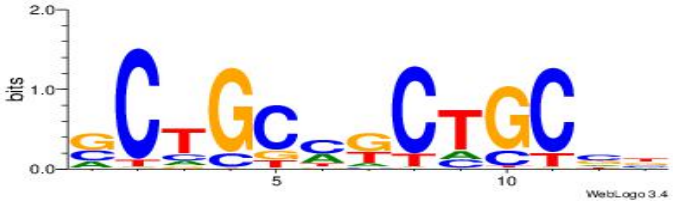


Reverse complement motif Consensus sequence: WCCTKGWTCTCWCMCTGW



Dataset #: 1 **Motif ID: 84** **Motif name: C084**

Original motif Consensus sequence: SCTGCMKCTGCVB



Reverse complement motif Consensus sequence: VVGCAGYRGCAGS

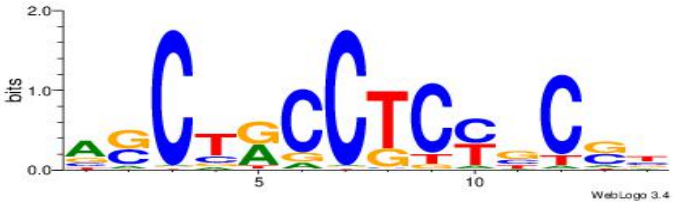
Best Matches for Significant Motif ID 84 (Highest to Lowest)

Dataset #:	1
Motif ID:	76
Motif name:	C076
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.00787805

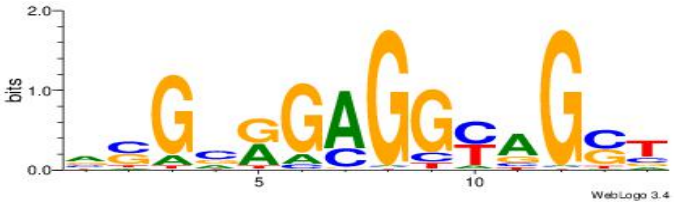
Alignment:

```
ASCTRCCTCYBCSB
-SCTGCMKCTGCVB
```

Original motif Consensus sequence: ASCTRCCTCYBCSB



Reverse complement motif Consensus sequence: VSGBKGAGGMAGS

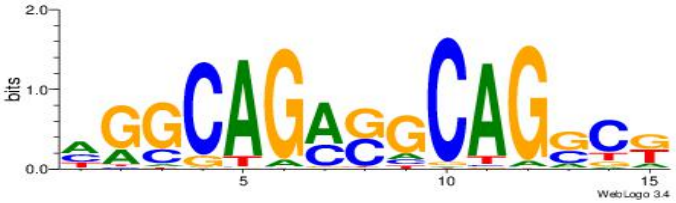


Dataset #:	1
Motif ID:	75
Motif name:	C075
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.0120992

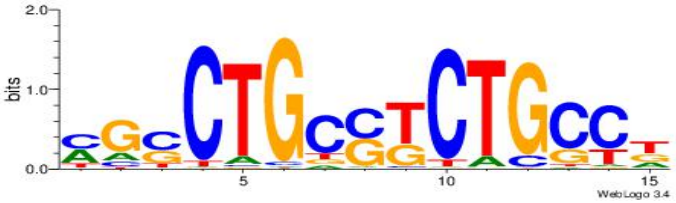
Alignment:

```
YGSCTGCSYCTGCCY
SCTGCMKCTGCVB--
```

Original motif Consensus sequence: MGGCAGMSGCAGSCK



Reverse complement motif Consensus sequence: YGSCTGCSYCTGC

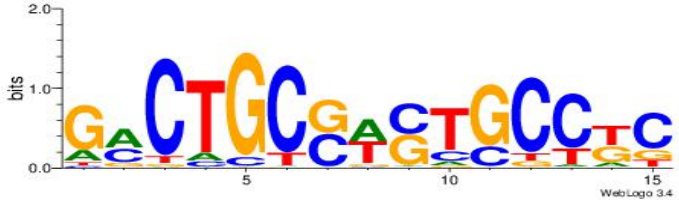


Dataset #:	1
Motif ID:	118
Motif name:	C118
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2

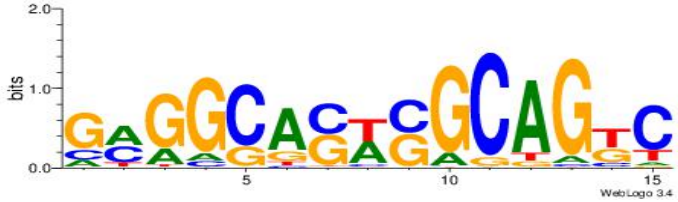
Number of overlap: 13
Similarity score: 0.0130639

Alignment:
GMCTGCSWSTGCCKC
-SCTGCMKCTGCVB-

Original motif Consensus sequence: GMCTGCSWSTGCCKC



Reverse complement motif Consensus sequence: GRGGCASWSGCAGYC

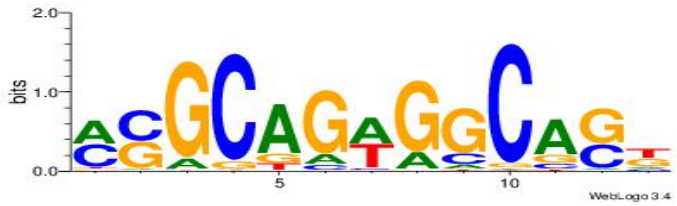


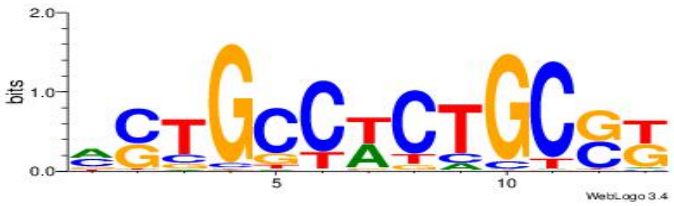
Dataset #: 1
Motif ID: 106
Motif name: C106
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 13
Similarity score: 0.0148962

Alignment:
RSTGCCWCTGCSY
SCTGCMKCTGCVB

Original motif Consensus sequence: MSGCAGWGGCASK

Reverse complement motif Consensus sequence: RSTGCCWCTGCSY





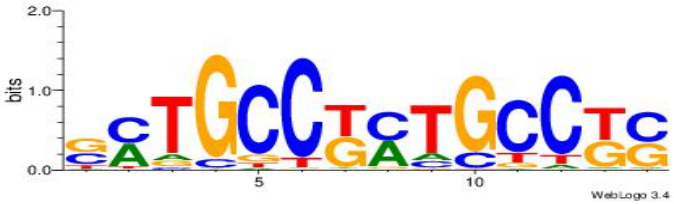
Dataset #:	1
Motif ID:	60
Motif name:	C060
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.0166117

Alignment:

```
SYTGCCYYTGCCYS
-SCTGCMKCTGCVB
```

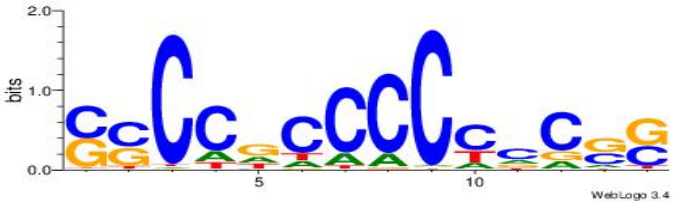
Original motif Consensus sequence: SMGGCAKMGGCAKS

Reverse complement motif Consensus sequence: SYTGCCYYTGCCYS



Dataset #: 1 Motif ID: 54 Motif name: C054

Original motif Consensus sequence: SSCCDCCCCCCCSS



Reverse complement motif Consensus sequence: SSGGGGGGGHGG

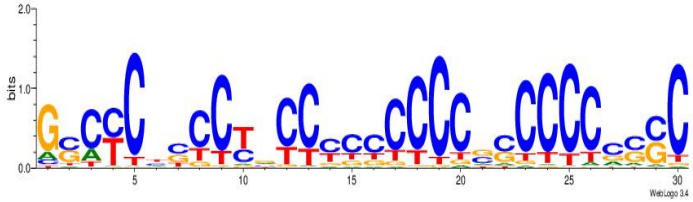
Best Matches for Significant Motif ID 54 (Highest to Lowest)

Dataset #:	1
Motif ID:	3
Motif name:	C003
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.010752

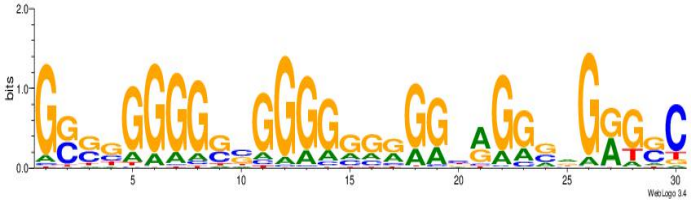
Alignment:

```
GSSGGGGGSSGGGGGGKGGVMGGSHGKGSC
SSGGGGGGGHGGSS----------------
```

Original motif Consensus sequence:
GSCYCHSCCYVCCYCCCCCCSSCCCCCSSC



Reverse complement motif Consensus sequence:
GSSGGGGGSSGGGGGGKGGVMGGSHGKGSC

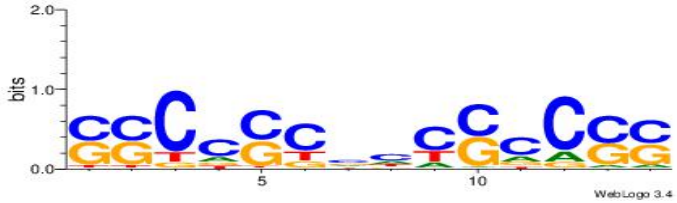


Dataset #:	1
Motif ID:	23
Motif name:	C023
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.0108829

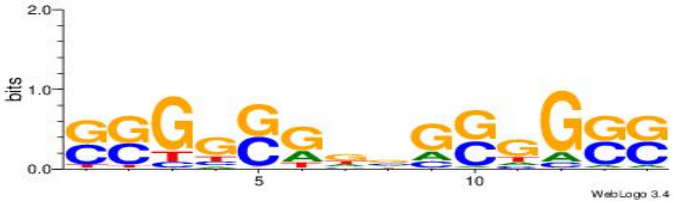
Alignment:

```
SSCCSCBHCSCCSS
SSCCDCCCCCCCSS
```

Original motif Consensus sequence: SSCCSCBHCSCCSS



Reverse complement motif Consensus sequence: SSGGSGDBGSGGS

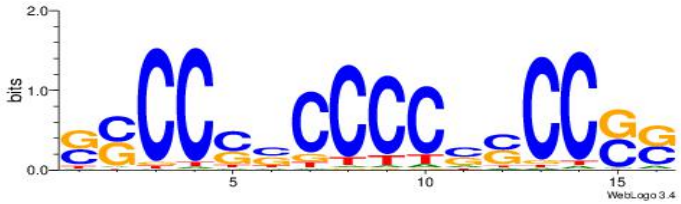


Dataset #:	1
Motif ID:	8
Motif name:	C008
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	14

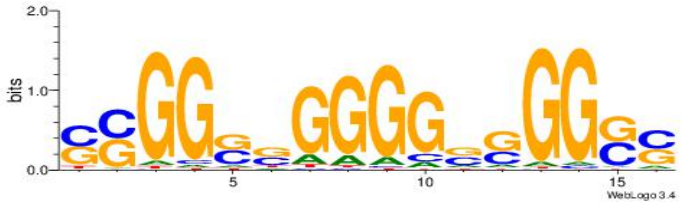
Similarity score: 0.0123397

Alignment:
SSCCSSCCCCSSCCSS
-SSCCDCCCCCCCSS-

Original motif Consensus sequence: SSCCSSCCCCSSCCSS



Reverse complement motif Consensus sequence: SSGGSSGGGGSSGGSS

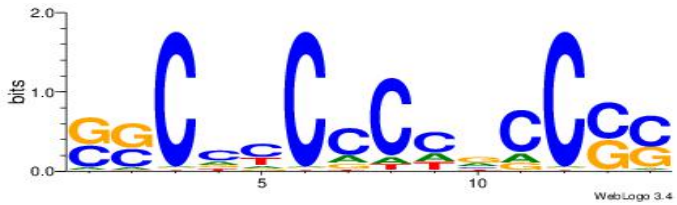


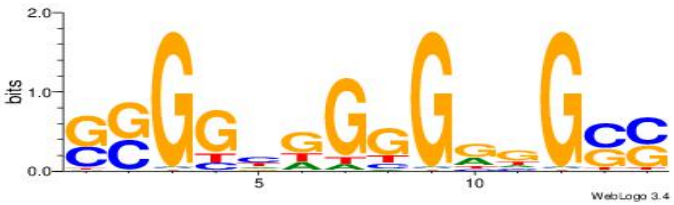
Dataset #: 1
Motif ID: 104
Motif name: C104
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 14
Similarity score: 0.0155505

Alignment:
SSGGHGGGGKGGSS
SSGGGGGGGHGGSS

Original motif Consensus sequence: SSCCYCCCCDCCSS

Reverse complement motif Consensus sequence: SSGGHGGGGKGG



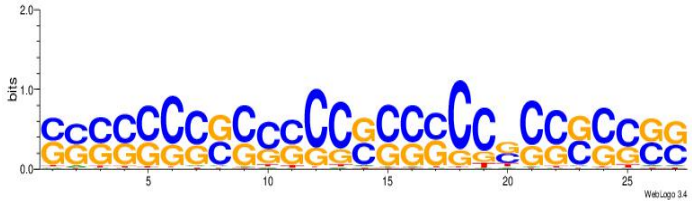


Dataset #:	1
Motif ID:	4
Motif name:	C004
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	14
Similarity score:	0.0155642

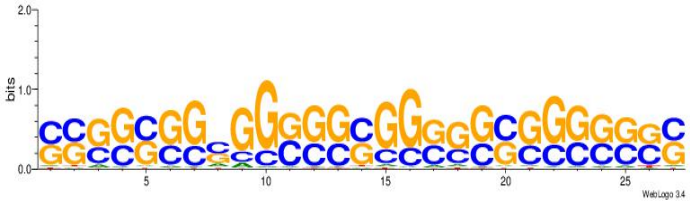
Alignment:

```
SSSSSSGSGGSSSSGGSSSSSGSSSSS
----SSGGGGGGGHGGSS---------
```

Original motif Consensus sequence:
SSSSSCSSSSSCCSSSSCCSCSSSSSS



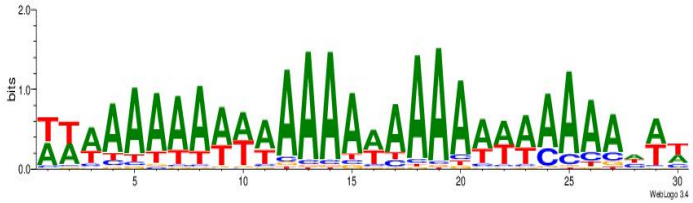
Reverse complement motif Consensus sequence:
SSSSSSGSGGSSSSGGSSSSSGSSSSS



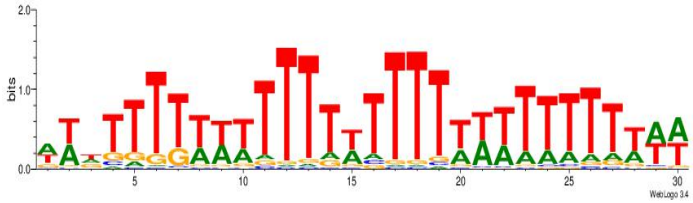
Best Matches for Each Motif (Highest to Lowest)

Dataset #: 1 Motif ID: 1 Motif name: C001

Original motif Consensus sequence:
WWWAAAAAWWAAAAAWAAAAAWWAAAAHWW



Reverse complement motif Consensus sequence:
WWHTTTTWWTTTTTWTTTTTWWTTTTTWWW



Best Matches for Motif ID 1 (Highest to Lowest)

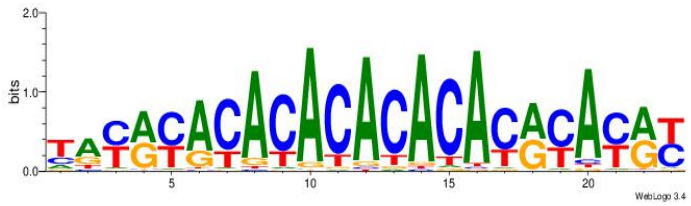
Dataset #:	1
Motif ID:	2
Motif name:	C002
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	23
Similarity score:	0.0778495

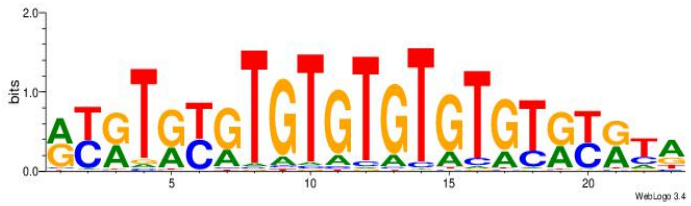
Alignment:

```
-------MKKTKKGTGTGTGTGTGTKKKTA
WWHTTTTWWTTTTTWTTTTTWWTTTTTWWW
```

Original motif Consensus sequence: TAYRYACACACACACACRYAYRY

Reverse complement motif Consensus sequence:
MKKTKKGTGTGTGTGTGTKKKTA



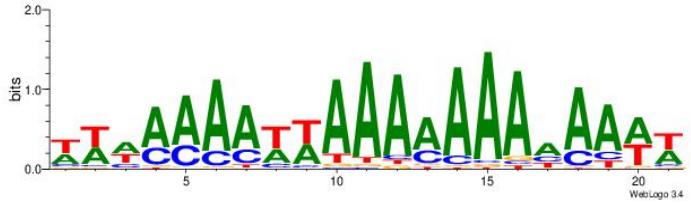


Dataset #:	1
Motif ID:	10
Motif name:	C010
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	21
Similarity score:	1.01726

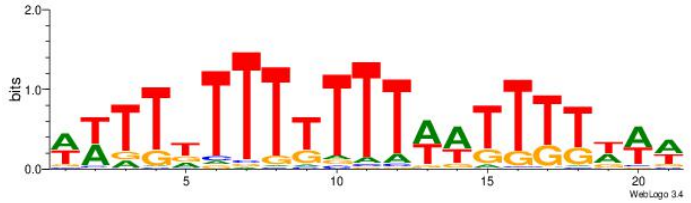
Alignment:

```
WWWAAAAWWAAAAAAAAAAWW---------
WWWAAAAAWWAAAAAWAAAAAWWAAAAHWW
```

Original motif Consensus sequence: WWWAAAAWWAAAAAAAAAAWW



Reverse complement motif Consensus sequence: WWTTTTTTTTTTWWTTTTWWW



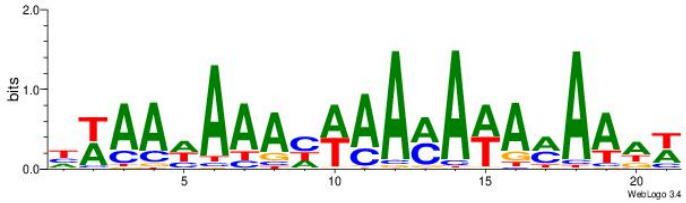
Dataset #:	1

Motif ID:	16
Motif name:	C016
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	21
Similarity score:	1.01956

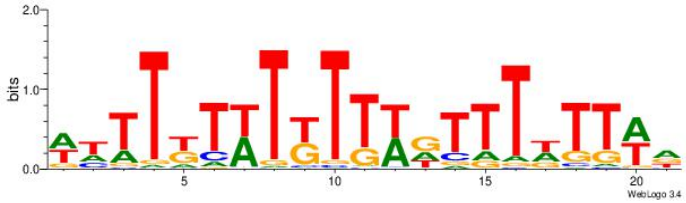
Alignment:

```
---------WWTTYTWTYTTWDTTTWTTWH
WWHTTTTWWTTTTTWTTTTTWWTTTTTWWW
```

Original motif Consensus sequence: HWAAWAAAHWAAMAWAMAAWW



Reverse complement motif Consensus sequence: WWTTYTWTYTTWDTTTWTTWH



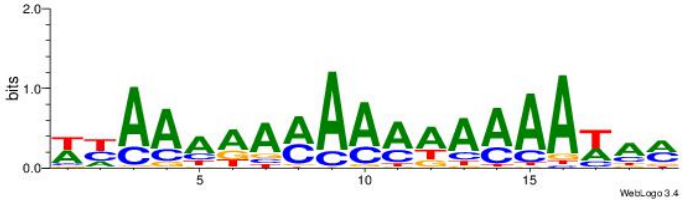
Dataset #:	1
Motif ID:	30
Motif name:	C030
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	19

Similarity score: 2.02984

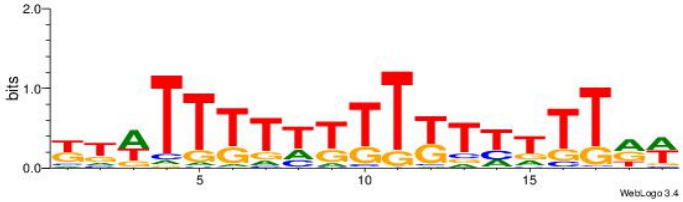
Alignment:

```
-----------WYAAAAAMAAAAAAAAWAM
WWWAAAAAWWAAAAAWAAAAAWWAAAAHWW
```

Original motif Consensus sequence: WYAAAAAMAAAAAAAAWAM



Reverse complement motif Consensus sequence: YTWTTTTTTTTYTTTTTMW



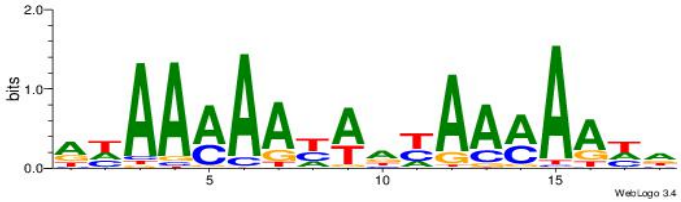
Dataset #: 1
Motif ID: 69
Motif name: C069
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 18
Similarity score: 2.53311

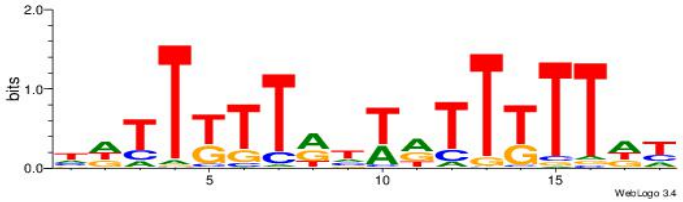
Alignment:

```
------------DHTTYTTMDWMTTYTTHT
WWHTTTTWWTTTTTWTTTTTWWTTTTTWWW
```

Original motif Consensus sequence: AHAAMAAYWDYAAMAAHD

Reverse complement motif Consensus sequence: DHTTYTTMDWMTTYTTHT



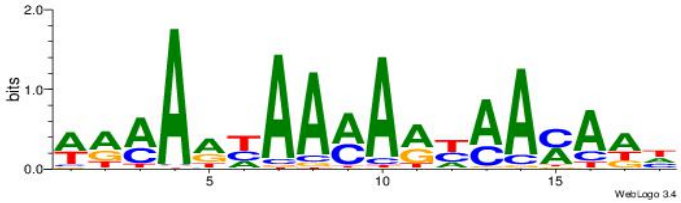


Dataset #:	1
Motif ID:	57
Motif name:	C057
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	2.54092

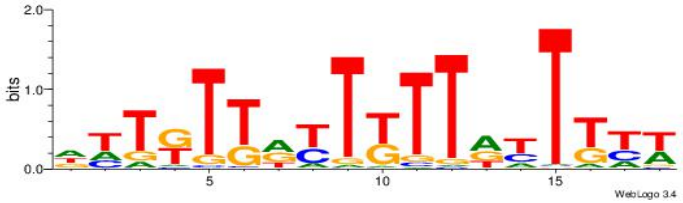
Alignment:

```
------------WRMARYAAMARYAAMAWH
WWWAAAAAWWAAAAAWAAAAAWWAAAAHWW
```

Original motif Consensus sequence: WRMARYAAMARYAAMAWH

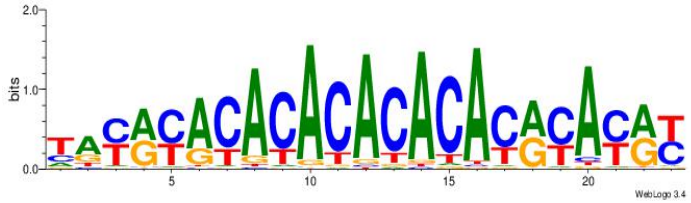


Reverse complement motif Consensus sequence: HWTRTTMKTYTTMKTYKW

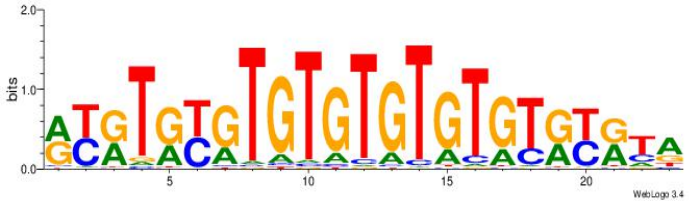


Dataset #: 1 Motif ID: 2 Motif name: C002

Original motif Consensus sequence: TAYRYACACACACACACRYAYRY



Reverse complement motif Consensus sequence: MKKTKKGTGTGTGTGTGTKKKTA



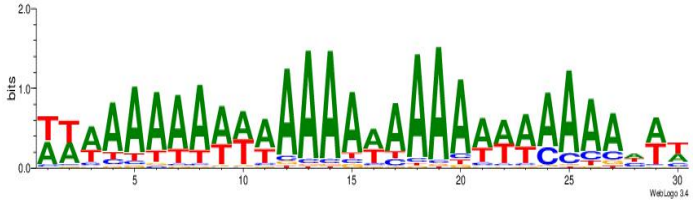
Best Matches for Motif ID 2 (Highest to Lowest)

Dataset #:	1
Motif ID:	1
Motif name:	C001
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	23
Similarity score:	0.0750684

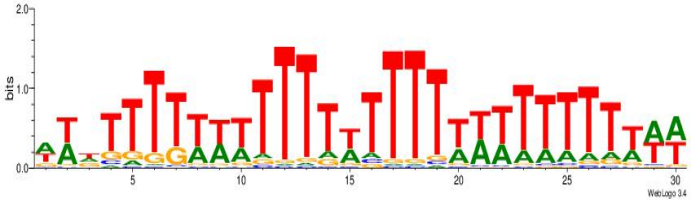
Alignment:

```
WWHTTTTWWTTTTTWTTTTTWWTTTTTWWW
--MKKTKKGTGTGTGTGTGTKKKTA-----
```

Original motif Consensus sequence: WWWAAAAAWWAAAAAWAAAAAWWAAAAHWW



Reverse complement motif Consensus sequence: WWHTTTTWWTTTTTWTTTTTWWTTTTTWWW

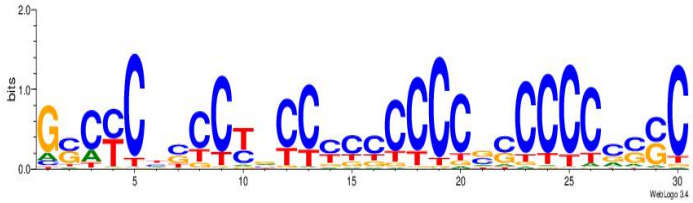


Dataset #:	1
Motif ID:	3
Motif name:	C003
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	23
Similarity score:	0.076772

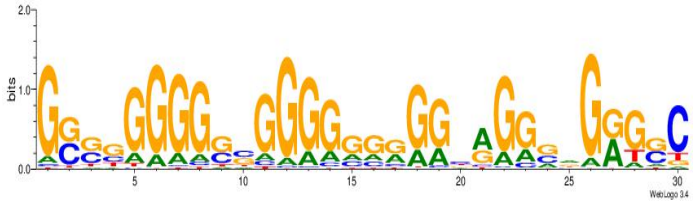
Alignment:

```
GSSGGGGGSSGGGGGGKGGVMGGSHGKGSC
--MKKTKKGTGTGTGTGTGTKKKTA-----
```

Original motif Consensus sequence:
GSCYCHSCCYVCCYCCCCCCSSCCCCCSSC



Reverse complement motif Consensus sequence:
GSSGGGGGSSGGGGGGKGGVMGGSHGKGSC

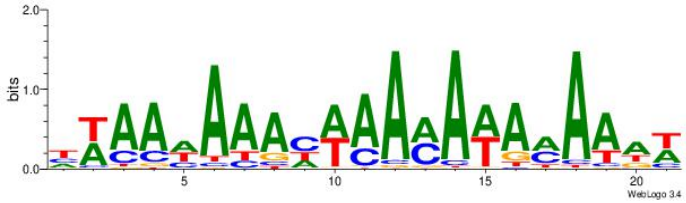


Dataset #:	1
Motif ID:	16
Motif name:	C016
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward

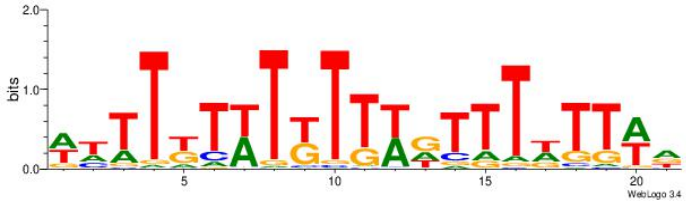
Position number: 1
Number of overlap: 21
Similarity score: 1.05891

Alignment:
--HWAAWAAAHWAAMAWAMAAWW
TAYRYACACACACACACRYAYRY

Original motif Consensus sequence: HWAAWAAAHWAAMAWAMAAWW



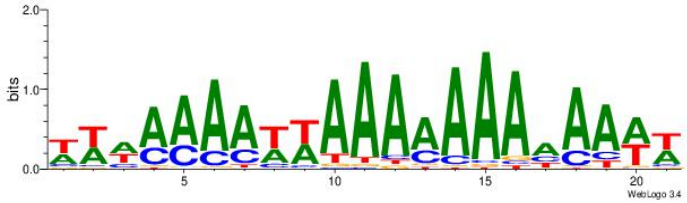
Reverse complement motif Consensus sequence: WWTTYTWTYTTWDTTTWTTWH



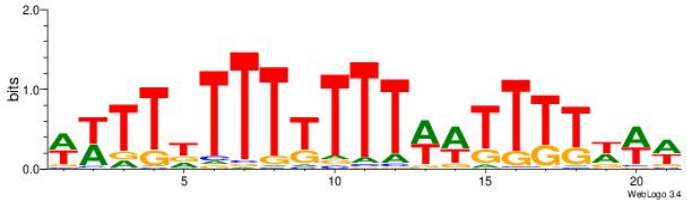
Dataset #: 1
Motif ID: 10
Motif name: C010
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 21
Similarity score: 1.07752

Alignment:
WWWAAAAWWAAAAAAAAAAWW--
TAYRYACACACACACACRYAYRY

Original motif Consensus sequence: WWWAAAAWWAAAAAAAAAWW



Reverse complement motif Consensus sequence: WWTTTTTTTTTWWTTTTWWW

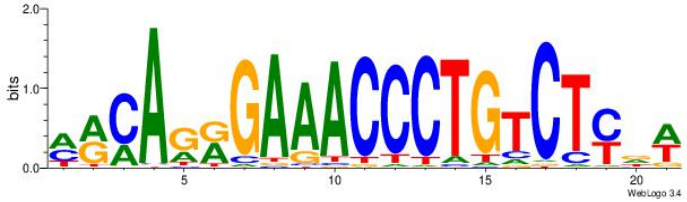


Dataset #:	1
Motif ID:	27
Motif name:	C027
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	21
Similarity score:	1.08199

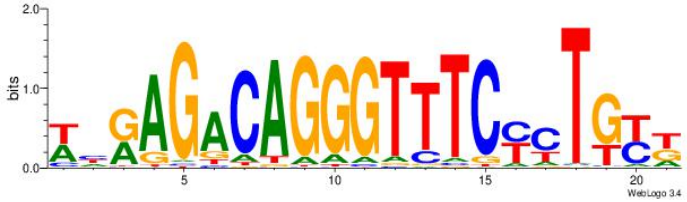
Alignment:

```
--MRCAGRGAAACCCTGTCTYDW
TAYRYACACACACACACRYAYRY
```

Original motif Consensus sequence: MRCAGRGAAACCCTGTCTYDW

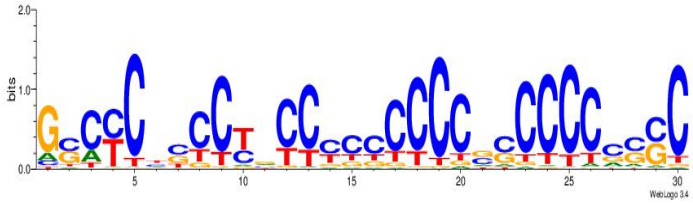


Reverse complement motif Consensus sequence: WHKAGACAGGGTTTCMCTGKY

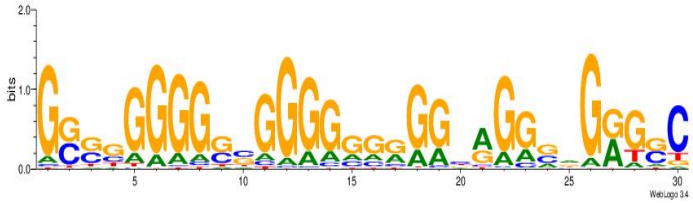


Dataset #: 1 Motif ID: 3 Motif name: C003

Original motif Consensus sequence:
GSCYCHSCCYVCCYCCCCCCSSCCCCCSSC



Reverse complement motif Consensus sequence:
GSSGGGGGSSGGGGGGKGGVMGGSHGKGSC



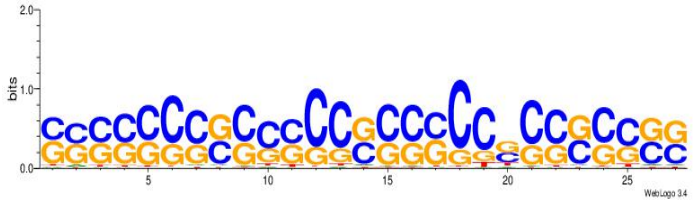
Best Matches for Motif ID 3 (Highest to Lowest)

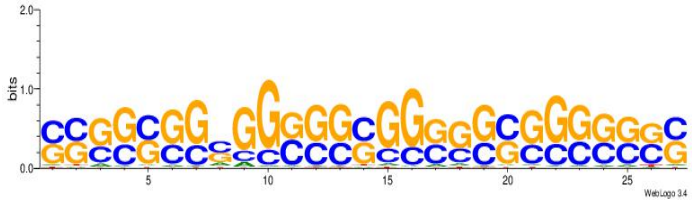
Dataset #:	1
Motif ID:	4
Motif name:	C004
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	27
Similarity score:	0.0402886

Alignment:
```
SSSSSCSSSSSCCSSSSCCSCSSSSSS---
GSCYCHSCCYVCCYCCCCCCSSCCCCCSSC
```

Original motif Consensus sequence:
SSSSSCSSSSSCCSSSSCCSCSSSSSS

Reverse complement motif Consensus sequence:
SSSSSSGSGGSSSSGGSSSSSGSSSSS



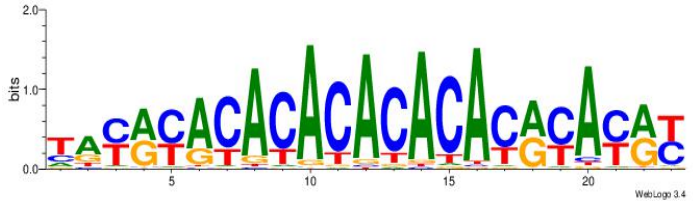


Dataset #:	1
Motif ID:	2
Motif name:	C002
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	23
Similarity score:	2.07737

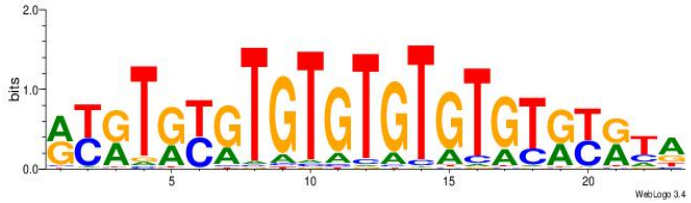
Alignment:

```
-------MKKTKKGTGTGTGTGTGTKKKTA
GSSGGGGGSSGGGGGGKGGVMGGSHGKGSC
```

Original motif Consensus sequence: TAYRYACACACACACACRYAYRY



Reverse complement motif Consensus sequence: MKKTKKGTGTGTGTGTGTKKKTA



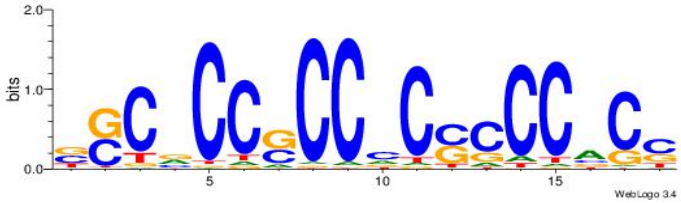
Dataset #:	1

Motif ID:	20
Motif name:	C020
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	4.53926

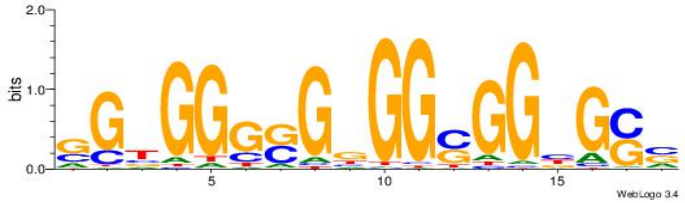
Alignment:

```
------------BSCVCCSCCVCSCCCACS
GSCYCHSCCYVCCYCCCCCCSSCCCCCSSC
```

Original motif Consensus sequence: BSCVCCSCCVCSCCCACS



Reverse complement motif Consensus sequence: SGTGGGSGVGGSGGVGSB

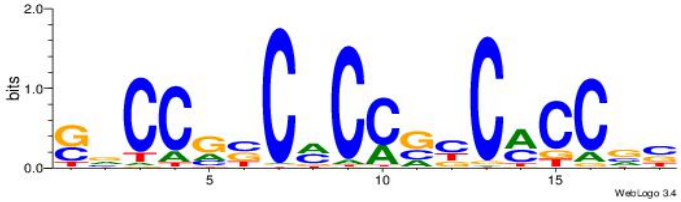


Dataset #:	1
Motif ID:	37
Motif name:	C037
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	18

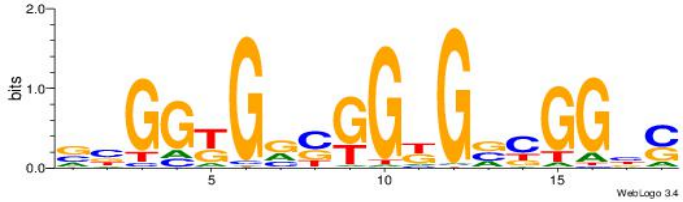
Similarity score: 4.54973

Alignment:
SVCCGBCMCCSYCMCCVB----------
GSCYCHSCCYVCCYCCCCCCSSCCCCCSSC

Original motif Consensus sequence: SVCCGBCMCCSYCMCCVB



Reverse complement motif Consensus sequence: BVGGYGKSGGYGBCGGVS

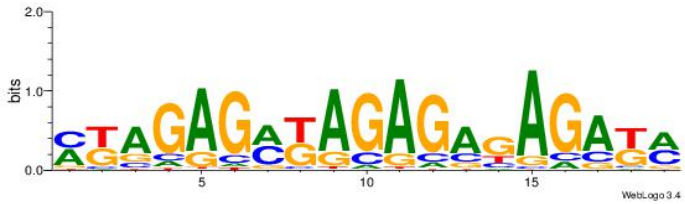


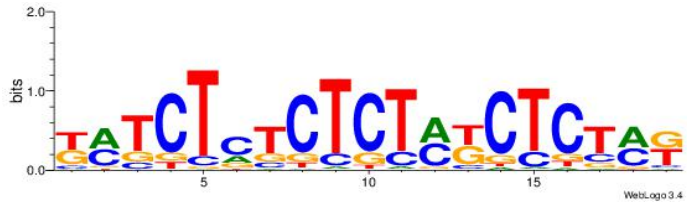
Dataset #: 1
Motif ID: 12
Motif name: C012
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 18
Similarity score: 4.56368

Alignment:
YRTCTCTCTCTRYCTCTRR----------
-GSCYCHSCCYVCCYCCCCCCSSCCCCCSSC

Original motif Consensus sequence: MKAGAGMKAGAGAGAGAKM

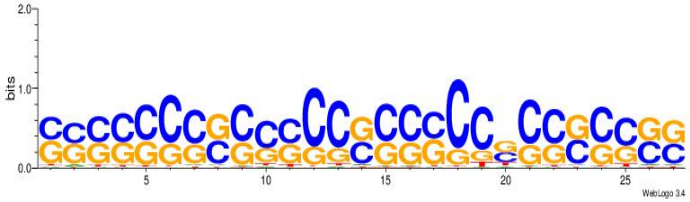
Reverse complement motif Consensus sequence: YRTCTCTCTCTRYCTCTRR



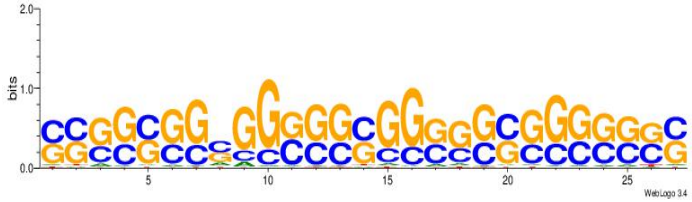


Dataset #: 1 Motif ID: 4 Motif name: C004

Original motif Consensus sequence:
SSSSSCSSSSSCCSSSSCCSCSSSSSS



Reverse complement motif Consensus sequence:
SSSSSSGSGGSSSSGGSSSSSGSSSSS



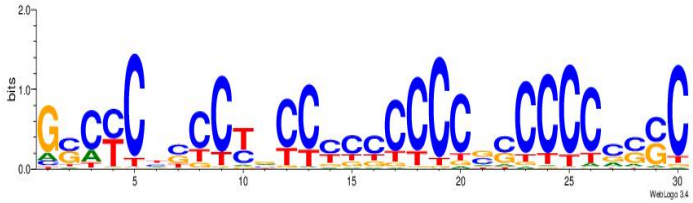
Best Matches for Motif ID 4 (Highest to Lowest)

Dataset #:	1
Motif ID:	3
Motif name:	C003
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	27
Similarity score:	0.0327958

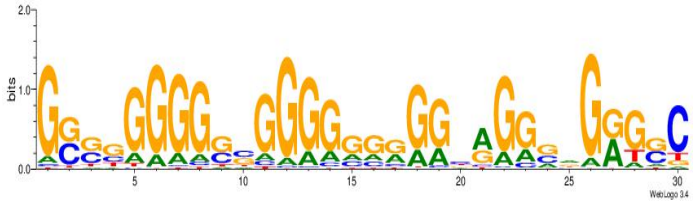
Alignment:

GSCYCHSCCYVCCYCCCCCCSSCCCCCSSC
-SSSSSCSSSSSCCSSSSCCSCSSSSSS--

Original motif Consensus sequence:
GSCYCHSCCYVCCYCCCCCCSSCCCCCSSC



Reverse complement motif Consensus sequence:
GSSGGGGGSSGGGGGGKGGVMGGSHGKGSC

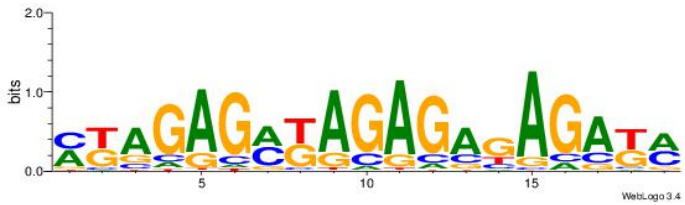


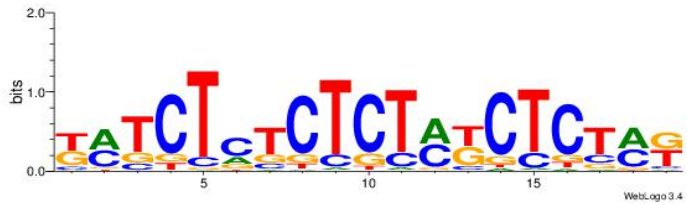
Dataset #:	1
Motif ID:	12
Motif name:	C012
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	4.07247

Alignment:
--------YRTCTCTCTCTRYCTCTRR
SSSSSCSSSSSCCSSSSCCSCSSSSSS

Original motif Consensus sequence: MKAGAGMKAGAGAGAGAKM

Reverse complement motif Consensus sequence:
YRTCTCTCTCTRYCTCTRR

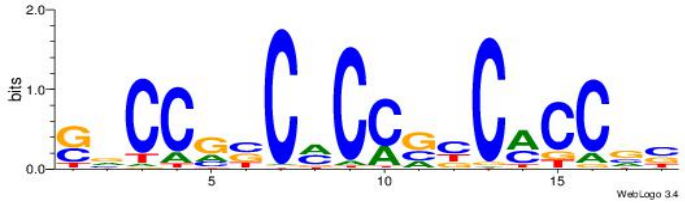




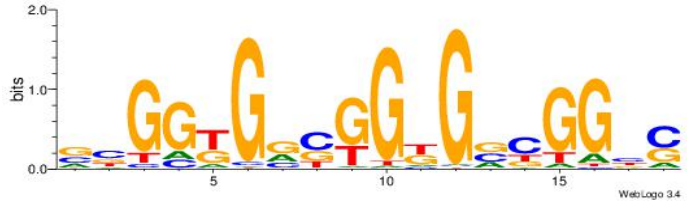
Dataset #: 1
Motif ID: 37
Motif name: C037
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 18
Similarity score: 4.52829

Alignment:
BVGGYGKSGGYGBCGGVS---------
SSSSSSGSGGSSSSGGSSSSSGSSSSS

Original motif Consensus sequence: SVCCGBCMCCSYCMCCVB



Reverse complement motif Consensus sequence: BVGGYGKSGGYGBCGGVS



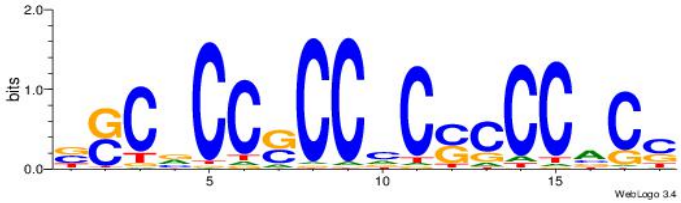
Dataset #: 1

Motif ID:	20
Motif name:	C020
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	4.5346

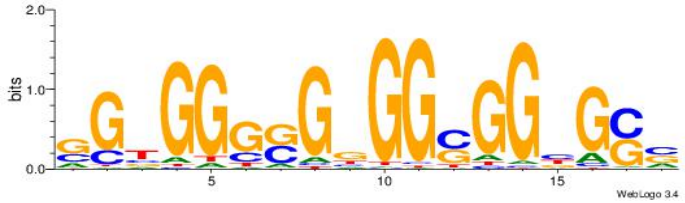
Alignment:

```
---------SGTGGGSGVGGSGGVGSB
SSSSSSGSGGSSSSGGSSSSSGSSSSS
```

Original motif Consensus sequence: BSCVCCSCCVCSCCCACS



Reverse complement motif Consensus sequence: SGTGGGSGVGGSGGVGSB



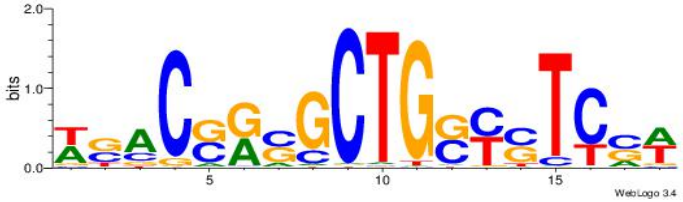
Dataset #:	1
Motif ID:	124
Motif name:	C124
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	18

Similarity score: 4.55821

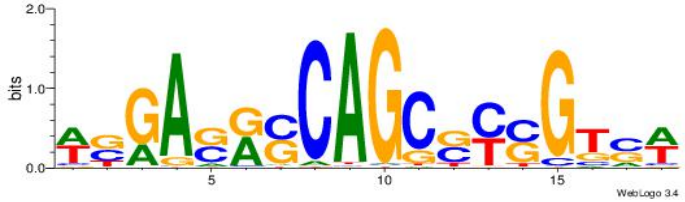
Alignment:

```
---------WSACSRSGCTGSYSTCSW
SSSSSCSSSSSCCSSSSCCSCSSSSSS
```

Original motif Consensus sequence: WSACSRSGCTGSYSTCSW

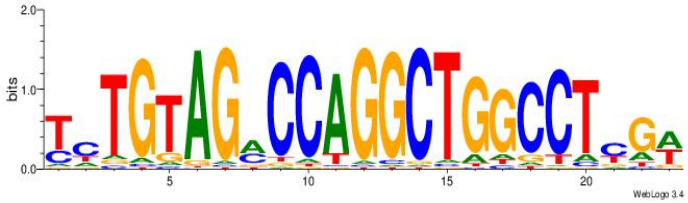


Reverse complement motif Consensus sequence: WSGASKSCAGCSMSGTSW

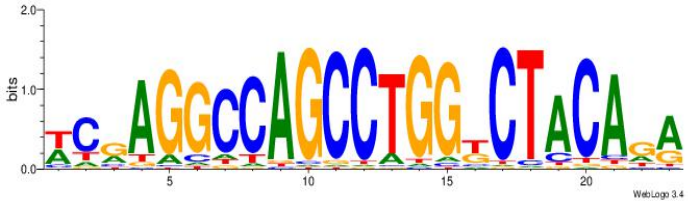


Dataset #: 1 Motif ID: 5 Motif name: C005

Original motif Consensus sequence: TCTGTAGMCCAGGCTGGCCTYGW



Reverse complement motif Consensus sequence: WCKAGGCCAGCCTGGYCTACAGA



Best Matches for Motif ID 5 (Highest to Lowest)

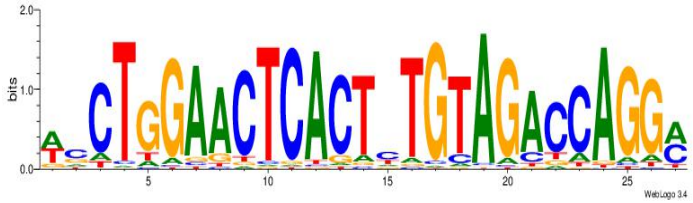
Dataset #:	1
Motif ID:	13
Motif name:	C013
Matching format of first motif:	Original Motif

Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	23
Similarity score:	0.0900989

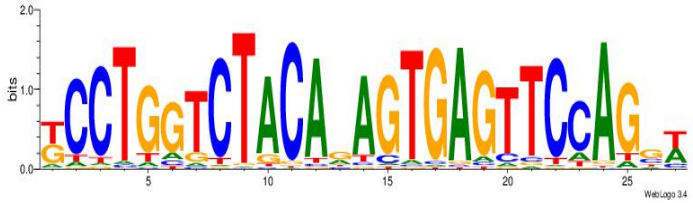
Alignment:

```
WVCTGGAACTCACTHTGTAGACCAGGM
-TCTGTAGMCCAGGCTGGCCTYGW---
```

Original motif Consensus sequence:
WVCTGGAACTCACTHTGTAGACCAGGM



Reverse complement motif Consensus sequence:
YCCTGGTCTACADAGTGAGTTCCAGVW

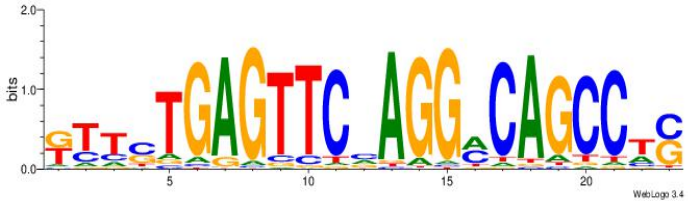


Dataset #:	1
Motif ID:	7
Motif name:	C007
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	21
Similarity score:	1.05522

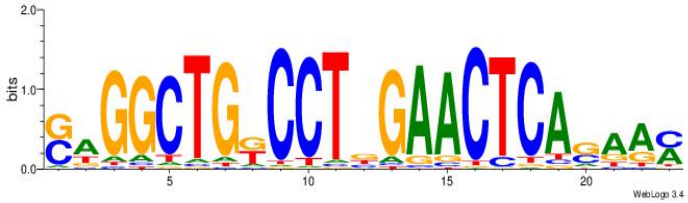
Alignment:

KTTSTGAGTTCVAGGMCAGCCTS--
--TCTGTAGMCCAGGCTGGCCTYGW

Original motif Consensus sequence: KTTSTGAGTTCVAGGMCAGCCTS



Reverse complement motif Consensus sequence: SAGGCTGYCCTVGAACTCASAAY

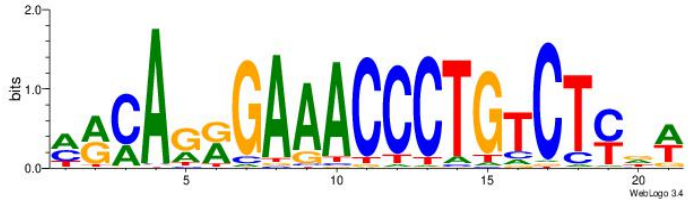


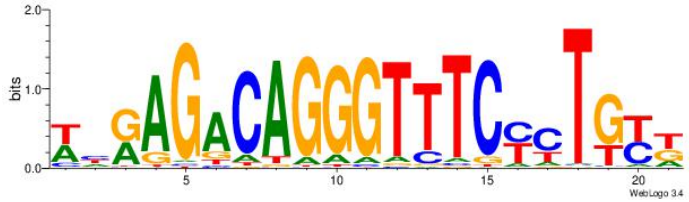
Dataset #:	1
Motif ID:	27
Motif name:	C027
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	21
Similarity score:	1.07502

Alignment:
--WHKAGACAGGGTTTCMCTGKY
TCTGTAGMCCAGGCTGGCCTYGW

Original motif Consensus sequence: MRCAGRGAAACCCTGTCTYDW

Reverse complement motif Consensus sequence: WHKAGACAGGGTTTCMCTGKY



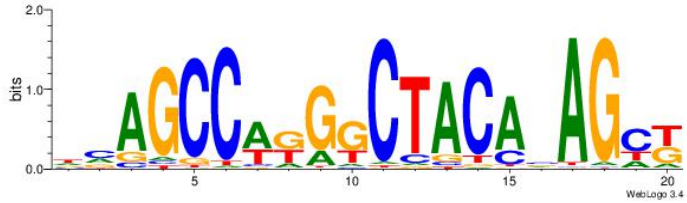


Dataset #:	1
Motif ID:	15
Motif name:	C015
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	1.5897

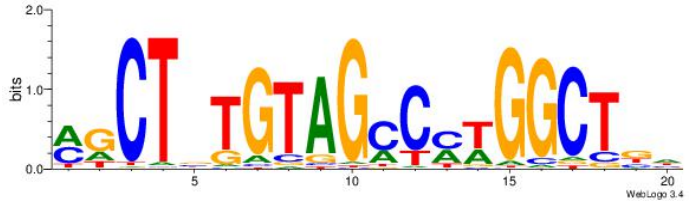
Alignment:

```
---DVAGCCWKGGCTACAVAGCK
TCTGTAGMCCAGGCTGGCCTYGW
```

Original motif Consensus sequence: DVAGCCWKGGCTACAVAGCK



Reverse complement motif Consensus sequence: RGCTVTGTAGCCYWGGCTVD



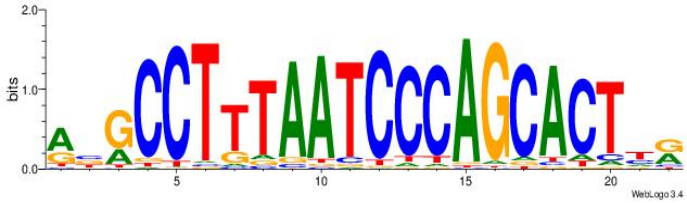
Dataset #:	1

Motif ID:	9
Motif name:	C009
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	19
Similarity score:	2.09004

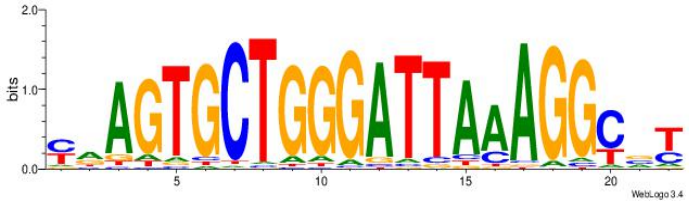
Alignment:

```
ABGCCTTTAATCCCAGCACTHR----
---TCTGTAGMCCAGGCTGGCCTYGW
```

Original motif Consensus sequence: ABGCCTTTAATCCCAGCACTHR

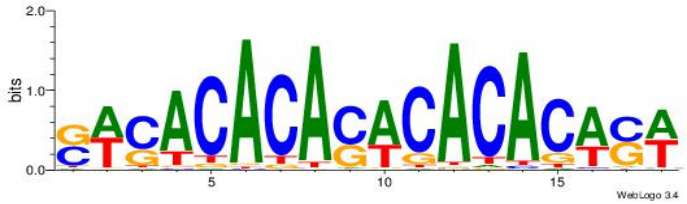


Reverse complement motif Consensus sequence: MHAGTGCTGGGATTAAAGGCBT

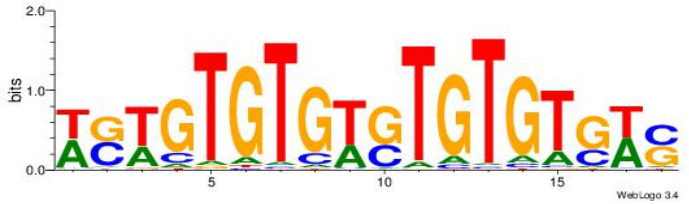


Dataset #: 1 Motif ID: 6 Motif name: C006

Original motif Consensus sequence: SWCACACASWCACACWSW



Reverse complement motif Consensus sequence: WSWGTGTGWSTGTGTGWS



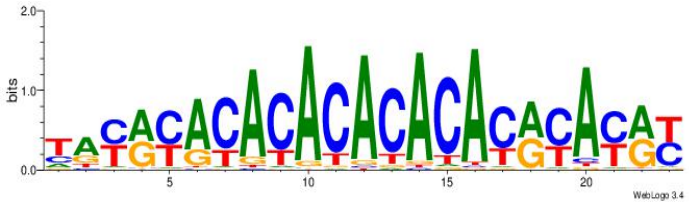
Best Matches for Motif ID 6 (Highest to Lowest)

Dataset #:	1
Motif ID:	2
Motif name:	C002
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	18
Similarity score:	0.00644556

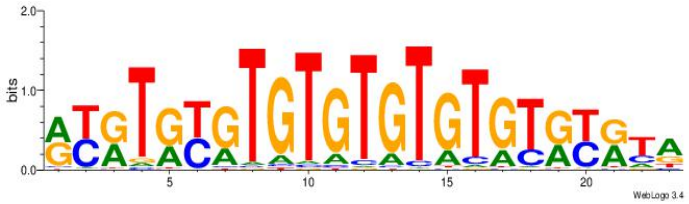
Alignment:

```
TAYRYACACACACACACRYAYRY
--SWCACACASWCACACWSW---
```

Original motif Consensus sequence: TAYRYACACACACACACRYAYRY



Reverse complement motif Consensus sequence: MKKTKKGTGTGTGTGTGTKKKTA

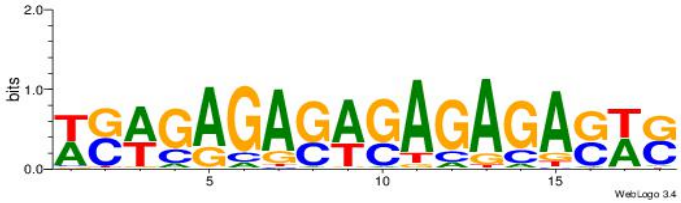


Dataset #:	1
Motif ID:	17
Motif name:	C017
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif

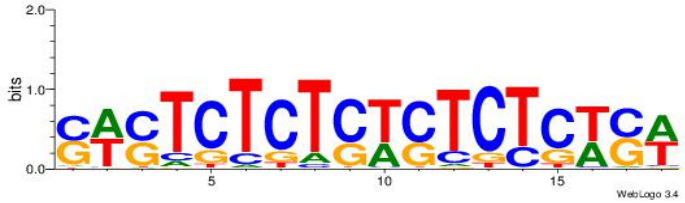
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.0313003

Alignment:
WSWGAGASWSAGAGASWS
WSWGTGTGWSTGTGTGWS

Original motif Consensus sequence: WSWGAGASWSAGAGASWS



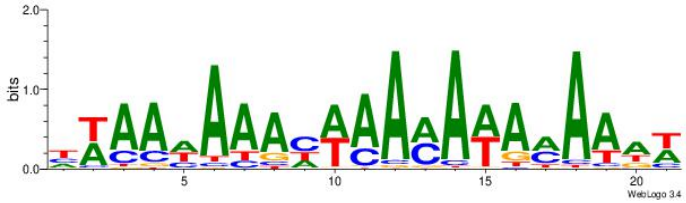
Reverse complement motif Consensus sequence: SWSTCTCTSWSTCTCWSW



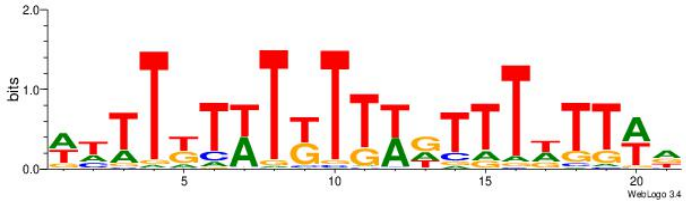
Dataset #:	1
Motif ID:	16
Motif name:	C016
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	18
Similarity score:	0.0487405

Alignment:
HWAAWAAAHWAAMAWAMAAWW
SWCACACASWCACACWSW---

Original motif Consensus sequence: HWAAWAAAHWAAMAWAMAAWW



Reverse complement motif Consensus sequence: WWTTYTWTYTTWDTTTWTTWH

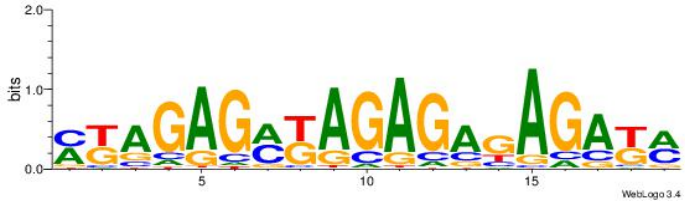


Dataset #:	1
Motif ID:	12
Motif name:	C012
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.0606253

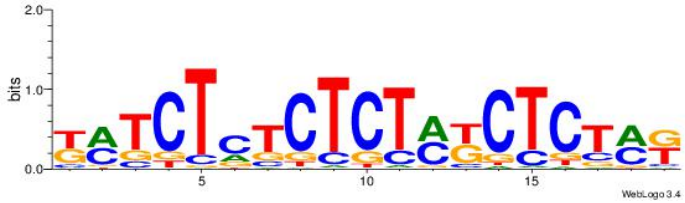
Alignment:

```
YRTCTCTCTCTRYCTCTRR
WSWGTGTGWSTGTGTGWS-
```

Original motif Consensus sequence: MKAGAGMKAGAGAGAGAKM



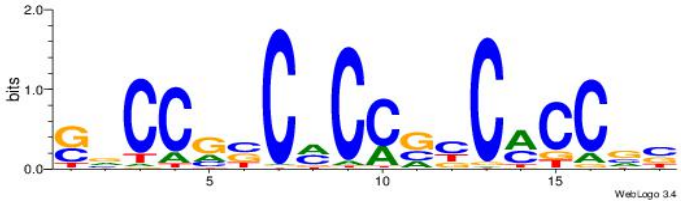
Reverse complement motif Consensus sequence: YRTCTCTCTCTRYCTCTRR



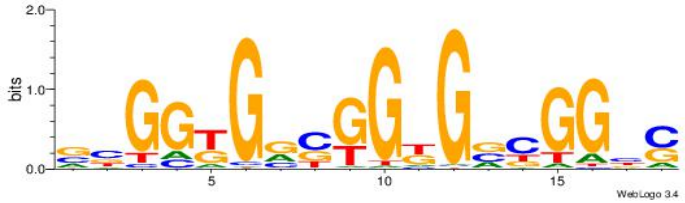
Dataset #:	1
Motif ID:	37
Motif name:	C037
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.0644383

Alignment:
BVGGYGKSGGYGBCGGVS
WSWGTGTGWSTGTGTGWS

Original motif Consensus sequence: SVCCGBCMCCSYCMCCVB



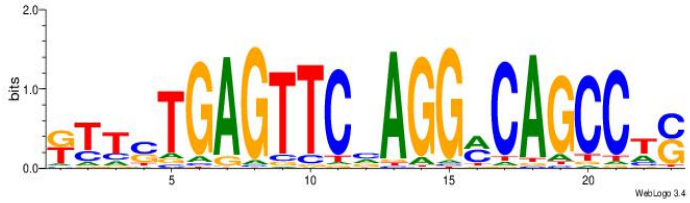
Reverse complement motif Consensus sequence: BVGGYGKSGGYGBCGGVS

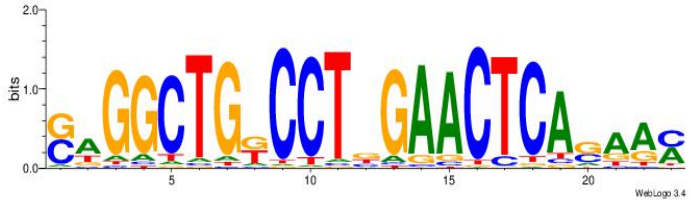


Dataset #: 1 Motif ID: 7 Motif name: C007

Original motif Consensus sequence: KTTSTGAGTTCVAGGMCAGCCTS

Reverse complement motif Consensus sequence: SAGGCTGYCCTVGAACTCASAAY





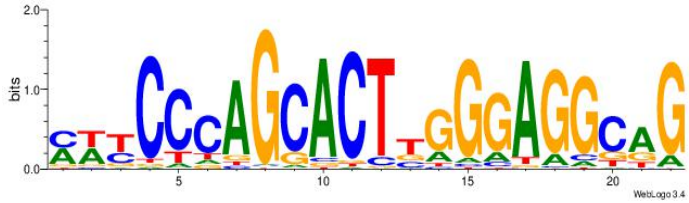
Best Matches for Motif ID 7 (Highest to Lowest)

Dataset #:	1
Motif ID:	19
Motif name:	C019
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	22
Similarity score:	0.0703515

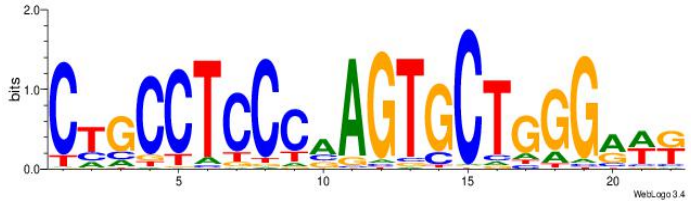
Alignment:

```
-CTGCCTCCCAAGTGCTGGGMWR
SAGGCTGYCCTVGAACTCASAAY
```

Original motif Consensus sequence: MWYCCCAGCACTTGGGAGGCAG



Reverse complement motif Consensus sequence: CTGCCTCCCAAGTGCTGGGMWR

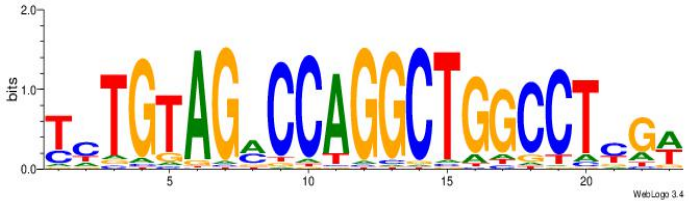


Dataset #:	1
Motif ID:	5
Motif name:	C005
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	21
Similarity score:	0.538292

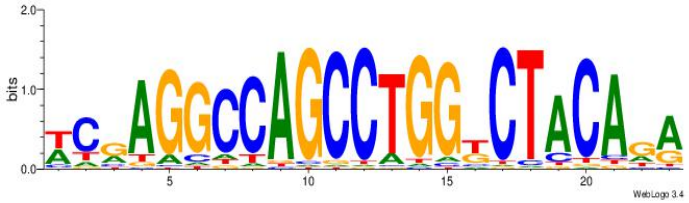
Alignment:

```
--TCTGTAGMCCAGGCTGGCCTYGW
KTTSTGAGTTCVAGGMCAGCCTS--
```

Original motif Consensus sequence: TCTGTAGMCCAGGCTGGCCTYGW



Reverse complement motif Consensus sequence: WCKAGGCCAGCCTGGYCTACAGA

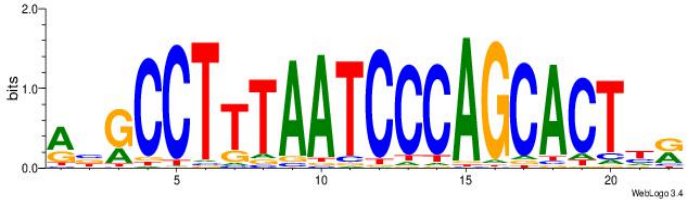


Dataset #:	1
Motif ID:	9
Motif name:	C009
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3

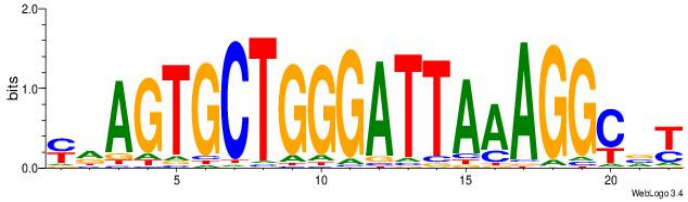
Number of overlap: 20
Similarity score: 1.06978

Alignment:
ABGCCTTTAATCCCAGCACTHR---
--KTTSTGAGTTCVAGGMCAGCCTS

Original motif Consensus sequence: ABGCCTTTAATCCCAGCACTHR



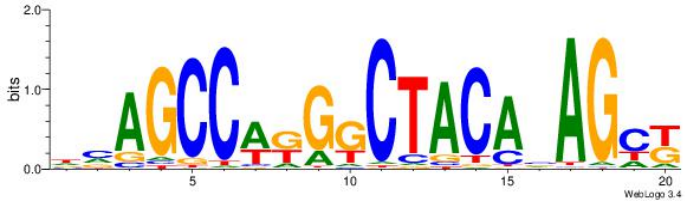
Reverse complement motif Consensus sequence: MHAGTGCTGGGATTAAAGGCBT



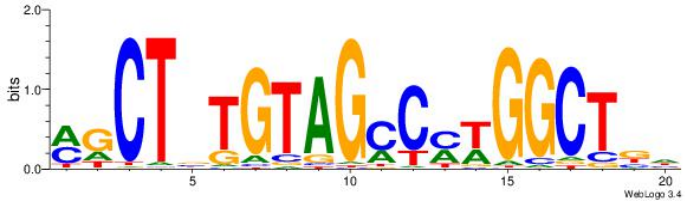
Dataset #: 1
Motif ID: 15
Motif name: C015
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 19
Similarity score: 1.564

Alignment:
RGCTVTGTAGCCYWGGCTVD----
-KTTSTGAGTTCVAGGMCAGCCTS

Original motif Consensus sequence: DVAGCCWKGGCTACAVAGCK



Reverse complement motif Consensus sequence: RGCTVTGTAGCCYWGGCTVD

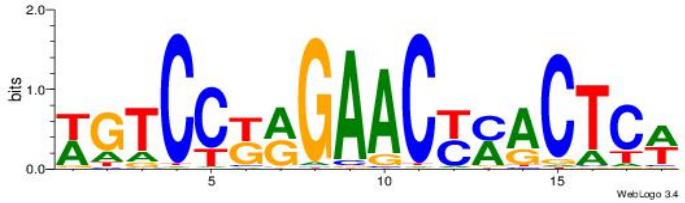


Dataset #:	1
Motif ID:	42
Motif name:	C042
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	2.02563

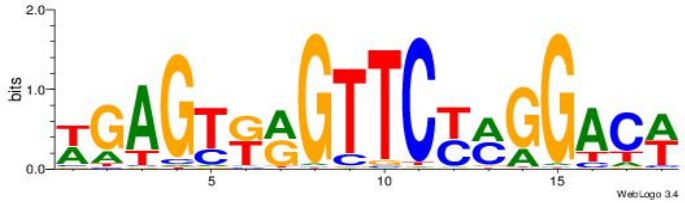
Alignment:

```
-----WGTCCKRGAACYMACTCW
SAGGCTGYCCTVGAACTCASAAY
```

Original motif Consensus sequence: WGTCCKRGAACYMACTCW

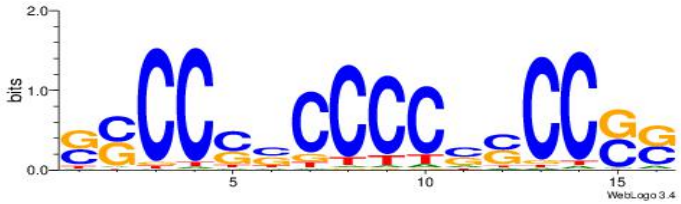


Reverse complement motif Consensus sequence: WGAGTRMGTTCKRGGACW

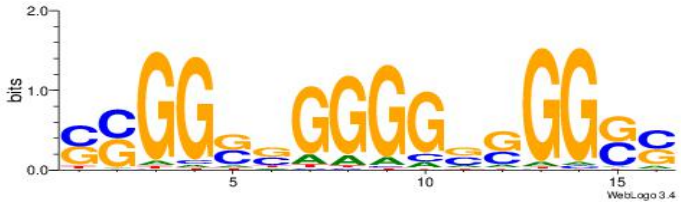


Dataset #: 1 **Motif ID: 8** **Motif name: C008**

Original motif Consensus sequence: SSCCSSCCCCSSCCSS



Reverse complement motif Consensus sequence: SSGGSSGGGGSSGGSS



Best Matches for Motif ID 8 (Highest to Lowest)

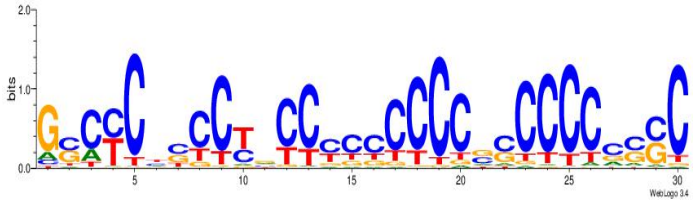
Dataset #:	1
Motif ID:	3
Motif name:	C003
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	16
Similarity score:	0.0125829

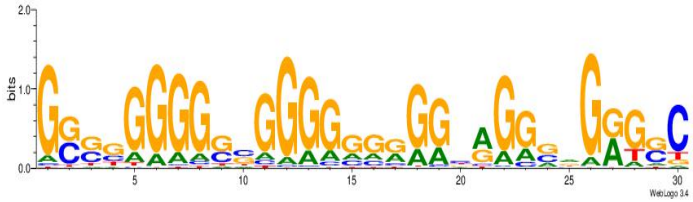
Alignment:

```
GSSGGGGGSSGGGGGGKGGVMGGSHGKGSC
----SSGGSSGGGGSSGGSS----------
```

Original motif Consensus sequence: GSCYCHSCCYVCCYCCCCCCSSCCCCCSSC

Reverse complement motif Consensus sequence: GSSGGGGGSSGGGGGGKGGVMGGSHGKGSC

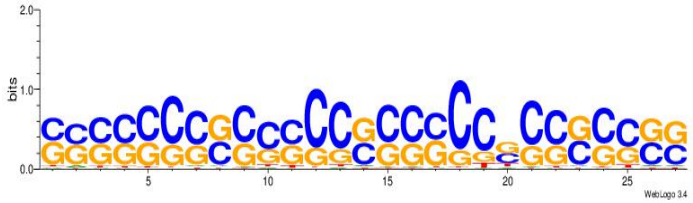




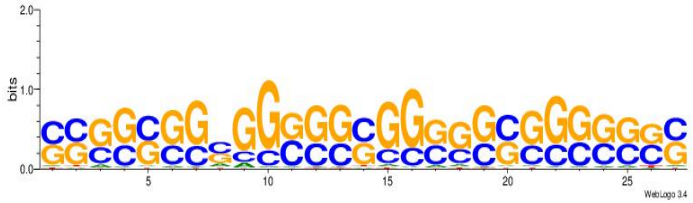
Dataset #: 1
Motif ID: 4
Motif name: C004
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 16
Similarity score: 0.0162389

Alignment:
SSSSSCSSSSSCCSSSSCCSCSSSSSS
---------SSCCSSCCCCSSCCSS--

Original motif Consensus sequence:
SSSSSCSSSSSCCSSSSCCSCSSSSSS



Reverse complement motif Consensus sequence:
SSSSSSGSGGSSSSGGSSSSSGSSSSS



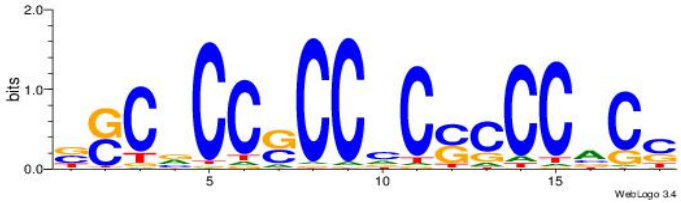
Dataset #: 1

Motif ID:	20
Motif name:	C020
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	16
Similarity score:	0.0195292

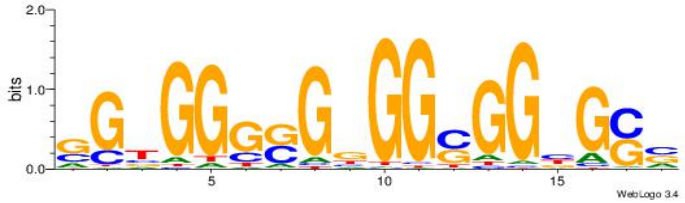
Alignment:

```
BSCVCCSCCVCSCCCACS
-SSCCSSCCCCSSCCSS-
```

Original motif Consensus sequence: BSCVCCSCCVCSCCCACS



Reverse complement motif Consensus sequence: SGTGGGSGVGGSGGVGSB

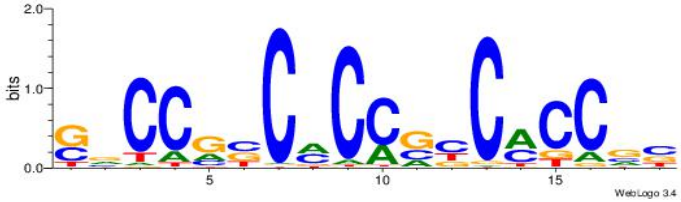


Dataset #:	1
Motif ID:	37
Motif name:	C037
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	16

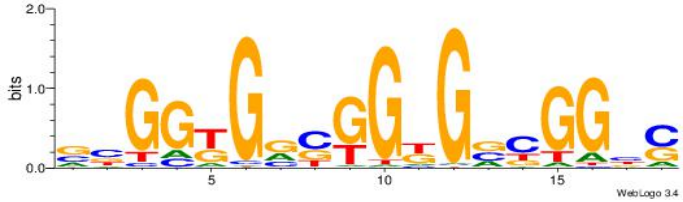
Similarity score: 0.0247991

Alignment:
SVCCGBCMCCSYCMCCVB
SSCCSSCCCCSSCCSS--

Original motif Consensus sequence: SVCCGBCMCCSYCMCCVB



Reverse complement motif Consensus sequence: BVGGYGKSGGYGBCGGVS

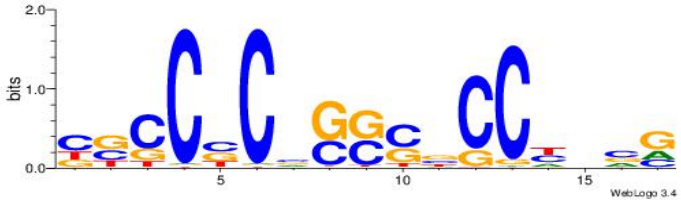


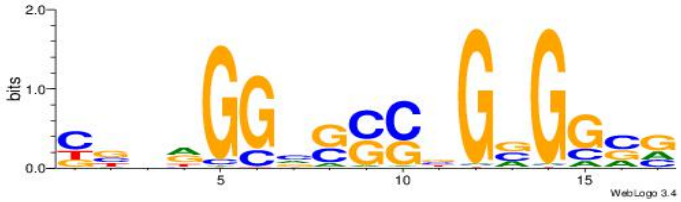
Dataset #: 1
Motif ID: 140
Motif name: C140
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 16
Similarity score: 0.041903

Alignment:
BSCCBCVSSSBCCYHVG
SSCCSSCCCCSSCCSS-

Original motif Consensus sequence: BSCCBCVSSSBCCYHVG

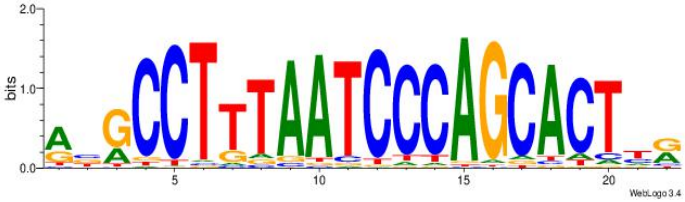
Reverse complement motif Consensus sequence: CVDMGGBSSSVGBGGSB



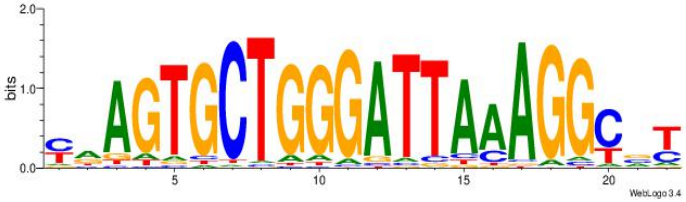


Dataset #: 1 **Motif ID: 9** **Motif name: C009**

Original motif Consensus sequence: ABGCCTTTAATCCCAGCACTHR



Reverse complement motif Consensus sequence: MHAGTGCTGGGATTAAAGGCBT



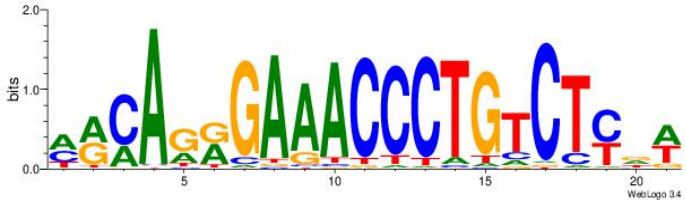
Best Matches for Motif ID 9 (Highest to Lowest)

Dataset #:	1
Motif ID:	27
Motif name:	C027
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	21
Similarity score:	0.0757308

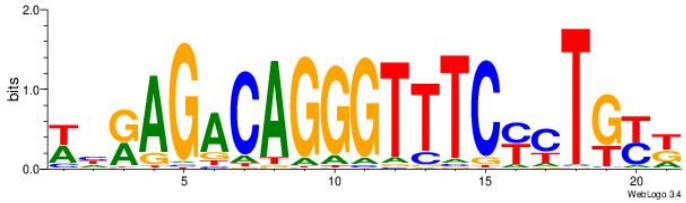
Alignment:

-MRCAGRGAAACCCTGTCTYDW
ABGCCTTTAATCCCAGCACTHR

Original motif Consensus sequence: MRCAGRGAAACCCTGTCTYDW



Reverse complement motif Consensus sequence: WHKAGACAGGGTTTCMCTGKY

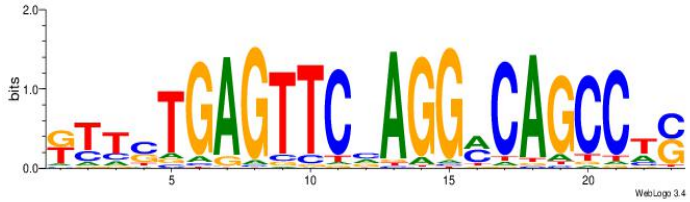


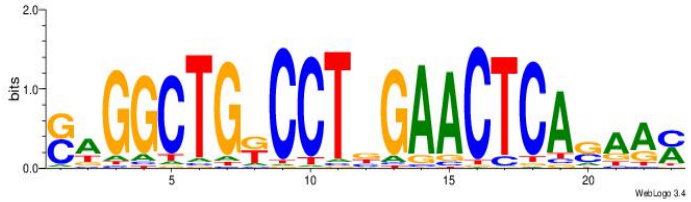
Dataset #:	1
Motif ID:	7
Motif name:	C007
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	20
Similarity score:	0.576852

Alignment:
--KTTSTGAGTTCVAGGMCAGCCTS
ABGCCTTTAATCCCAGCACTHR---

Original motif Consensus sequence: KTTSTGAGTTCVAGGMCAGCCTS

Reverse complement motif Consensus sequence: SAGGCTGYCCTVGAACTCASAAY

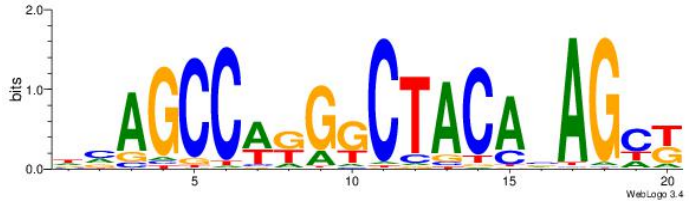




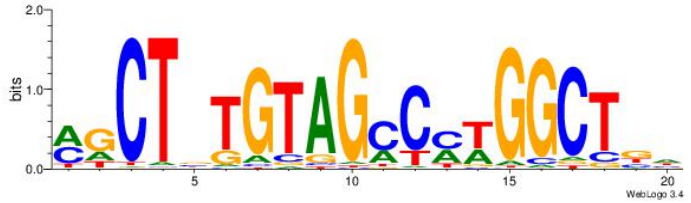
Dataset #: 1
Motif ID: 15
Motif name: C015
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 20
Similarity score: 0.580317

Alignment:
RGCTVTGTAGCCYWGGCTVD--
ABGCCTTTAATCCCAGCACTHR

Original motif Consensus sequence: DVAGCCWKGGCTACAVAGCK



Reverse complement motif Consensus sequence:
RGCTVTGTAGCCYWGGCTVD



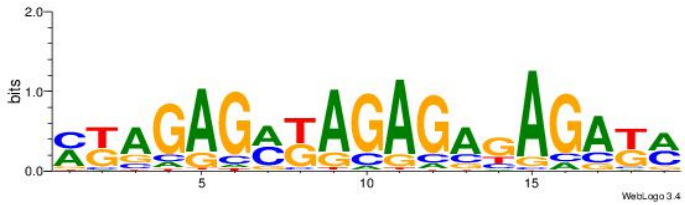
Dataset #: 1

Motif ID:	12
Motif name:	C012
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	1.07996

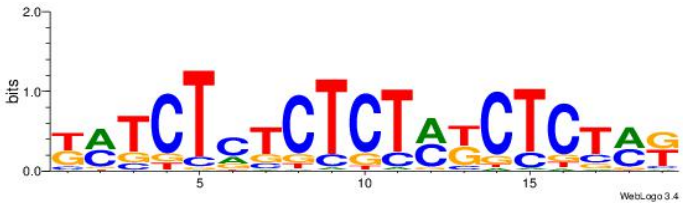
Alignment:

```
MKAGAGMKAGAGAGAGAKM---
MHAGTGCTGGGATTAAAGGCBT
```

Original motif Consensus sequence: MKAGAGMKAGAGAGAGAKM



Reverse complement motif Consensus sequence: YRTCTCTCTCTRYCTCTRR



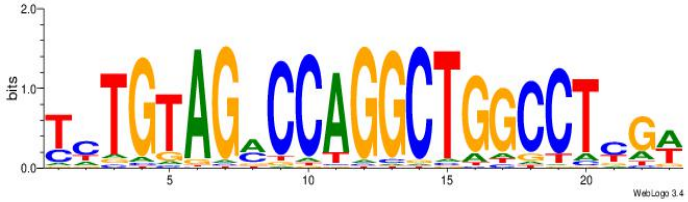
Dataset #:	1
Motif ID:	5
Motif name:	C005
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	19

Similarity score: 1.08019

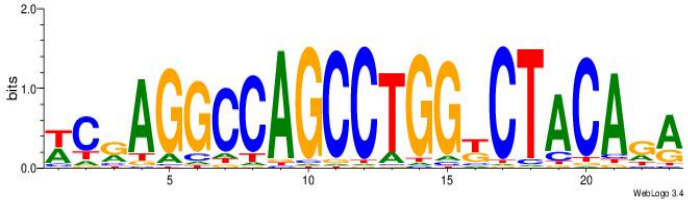
Alignment:

```
---TCTGTAGMCCAGGCTGGCCTYGW
ABGCCTTTAATCCCAGCACTHR----
```

Original motif Consensus sequence: TCTGTAGMCCAGGCTGGCCTYGW

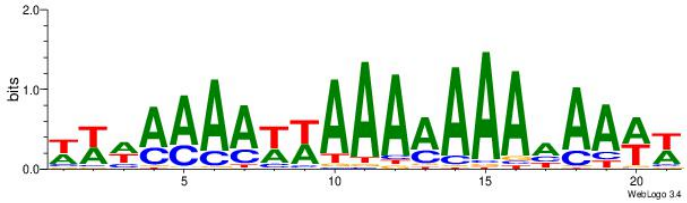


Reverse complement motif Consensus sequence: WCKAGGCCAGCCTGGYCTACAGA

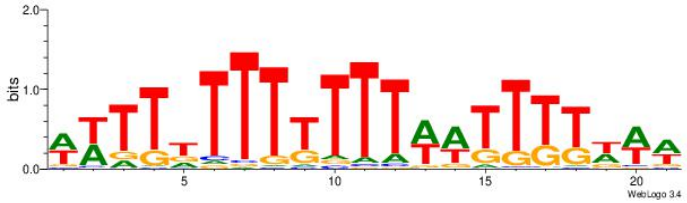


Dataset #: 1 Motif ID: 10 Motif name: C010

Original motif Consensus sequence: WWWAAAAWWAAAAAAAAAWW



Reverse complement motif Consensus sequence: WWTTTTTTTTTTWWTTTTWWW



Best Matches for Motif ID 10 (Highest to Lowest)

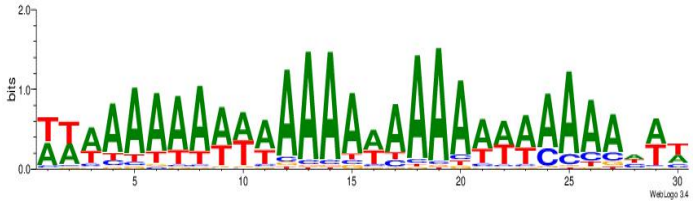
Dataset #:	1
Motif ID:	1
Motif name:	C001
Matching format of first motif:	Reverse Complement

Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	9
Number of overlap:	21
Similarity score:	0.0115098

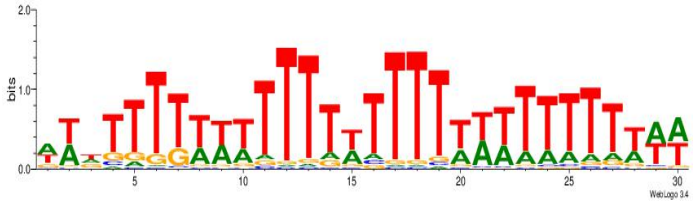
Alignment:

```
WWHTTTTWWTTTTTWTTTTTWWTTTTTWWW
--------WWTTTTTTTTTTWWTTTTWWW-
```

Original motif Consensus sequence:
WWWAAAAAWWAAAAAWAAAAAWWAAAAHWW



Reverse complement motif Consensus sequence:
WWHTTTTWWTTTTTWTTTTTWWTTTTTWWW

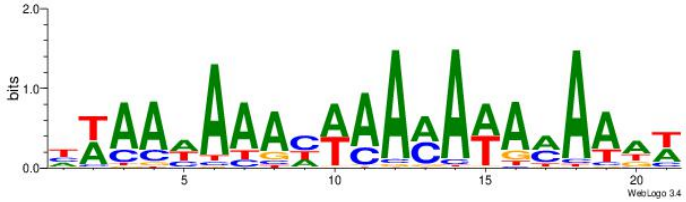


Dataset #:	1
Motif ID:	16
Motif name:	C016
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	21
Similarity score:	0.0128672

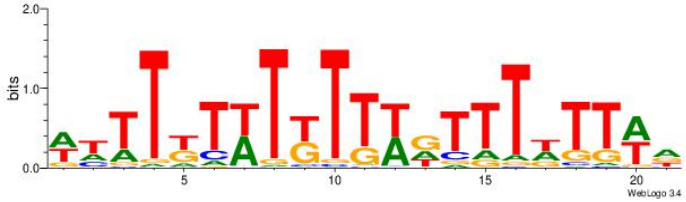
Alignment:

HWAAWAAAHWAAMAWAMAAWW
WWWAAAAWWAAAAAAAAAAWW

Original motif Consensus sequence: HWAAWAAAHWAAMAWAMAAWW



Reverse complement motif Consensus sequence: WWTTYTWTYTTWDTTTWTTWH

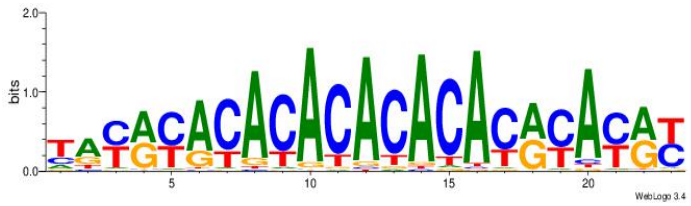


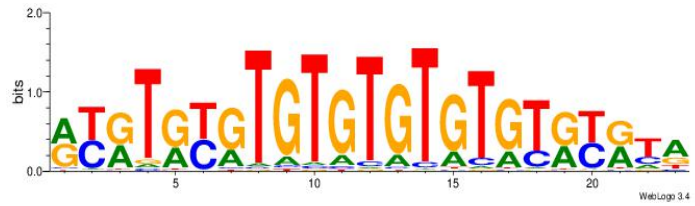
Dataset #:	1
Motif ID:	2
Motif name:	C002
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	21
Similarity score:	0.0748547

Alignment:
TAYRYACACACACACACRYAYRY
WWWAAAAWWAAAAAAAAAAWW--

Original motif Consensus sequence: TAYRYACACACACACACRYAYRY

Reverse complement motif Consensus sequence: MKKTKKGTGTGTGTGTGTKKKTA



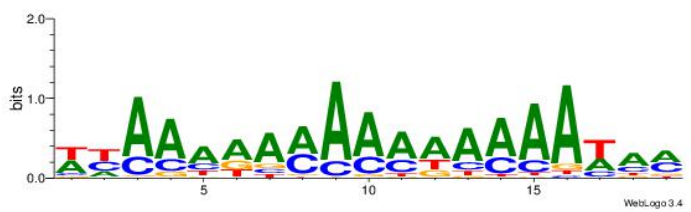


Dataset #:	1
Motif ID:	30
Motif name:	C030
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	1.02629

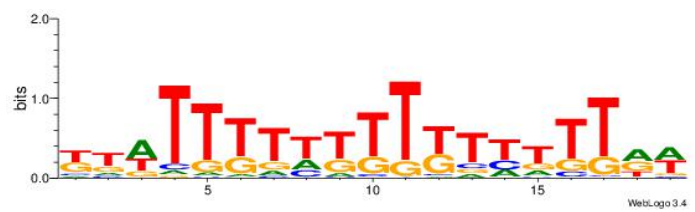
Alignment:

```
WYAAAAAMAAAAAAAAWAM--
WWWAAAAWWAAAAAAAAAAWW
```

Original motif Consensus sequence: WYAAAAAMAAAAAAAAWAM



Reverse complement motif Consensus sequence: YTWTTTTTTTTYTTTTTMW



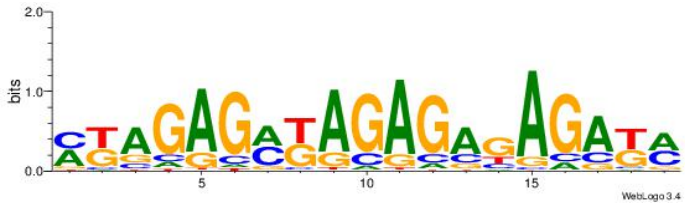
Dataset #:	1

Motif ID:	12
Motif name:	C012
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	19
Similarity score:	1.0801

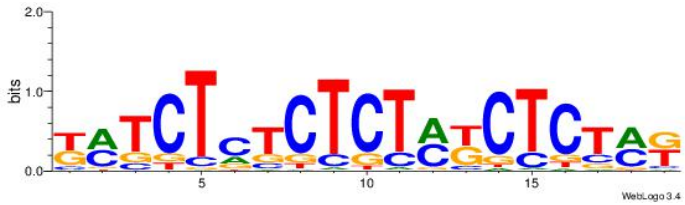
Alignment:

```
--YRTCTCTCTCTRYCTCTRR
WWTTTTTTTTTTWWTTTTWWW
```

Original motif Consensus sequence: MKAGAGMKAGAGAGAGAKM

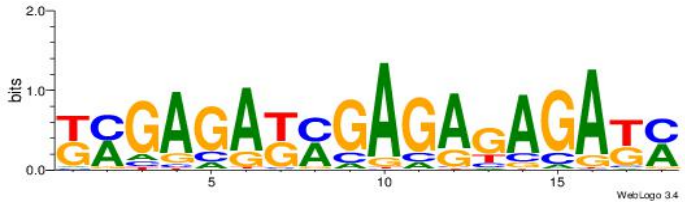


Reverse complement motif Consensus sequence: YRTCTCTCTCTRYCTCTRR

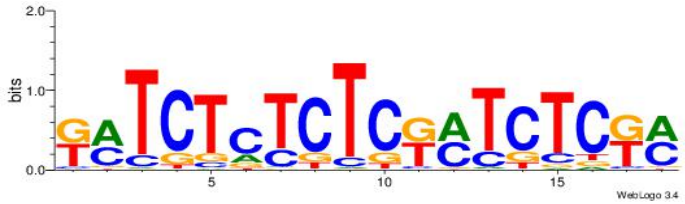


Dataset #: 1 Motif ID: 11 Motif name: C011

Original motif Consensus sequence: KMGAGAKMGAGAGAGAKM



Reverse complement motif Consensus sequence: RRTCTCTCTCRRTCTCRR



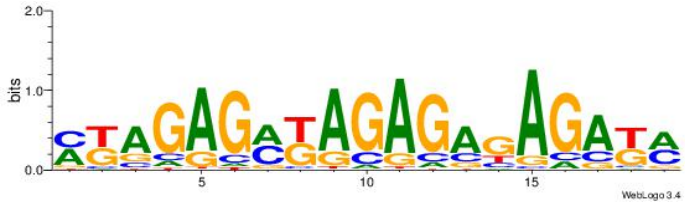
Best Matches for Motif ID 11 (Highest to Lowest)

Dataset #:	1
Motif ID:	12
Motif name:	C012
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.0233796

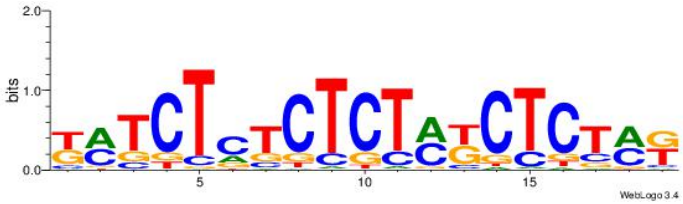
Alignment:

```
MKAGAGMKAGAGAGAGAKM
-KMGAGAKMGAGAGAGAKM
```

Original motif Consensus sequence: MKAGAGMKAGAGAGAGAKM



Reverse complement motif Consensus sequence: YRTCTCTCTCTRYCTCTRR

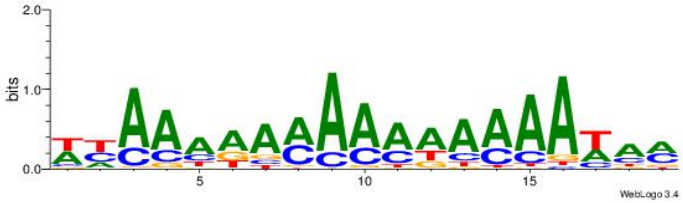


Dataset #:	1
Motif ID:	30
Motif name:	C030
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif

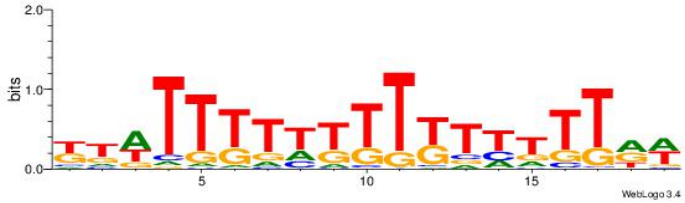
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.0993282

Alignment:
WYAAAAAMAAAAAAAAWAM
KMGAGAKMGAGAGAGAKM-

Original motif Consensus sequence: WYAAAAAMAAAAAAAAWAM



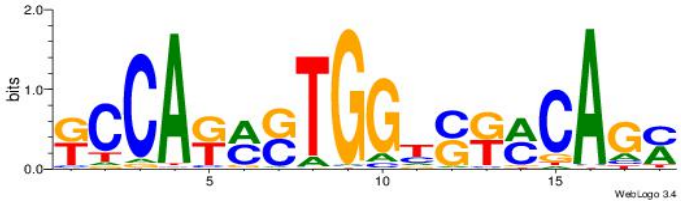
Reverse complement motif Consensus sequence: YTWTTTTTTTTYTTTTTMW



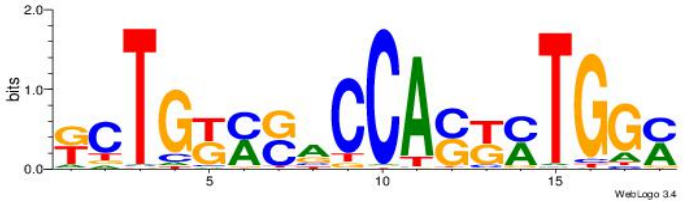
Dataset #:	1
Motif ID:	95
Motif name:	C095
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.101588

Alignment:
KCCAKMSTGGTSKMCAGM
KMGAGAKMGAGAGAGAKM

Original motif Consensus sequence: KCCAKMSTGGTSKMCAGM



Reverse complement motif Consensus sequence: RCTGYYSACCASYYTGGY

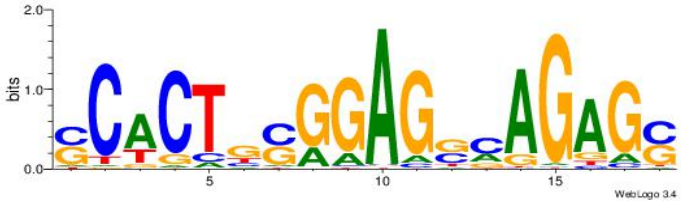


Dataset #:	1
Motif ID:	34
Motif name:	C034
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.102501

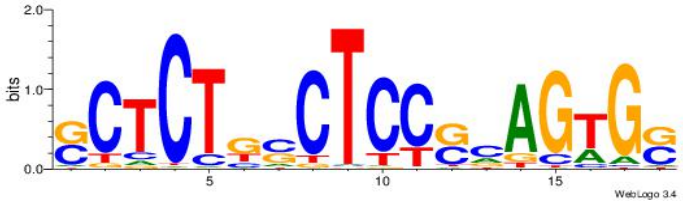
Alignment:

```
SCTCTRSCTCCSCAGTGS
RRTCTCTCTCRRTCTCRR
```

Original motif Consensus sequence: SCACTGSGGAGSMAGAGS



Reverse complement motif Consensus sequence: SCTCTRSCTCCSCAGTGS

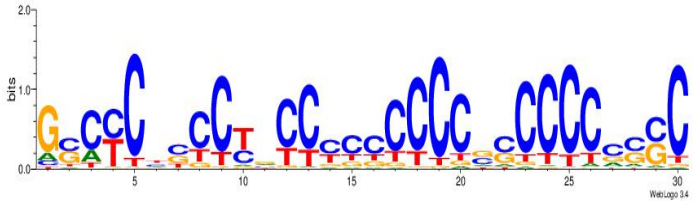


Dataset #:	1
Motif ID:	3
Motif name:	C003
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	11
Number of overlap:	18
Similarity score:	0.103902

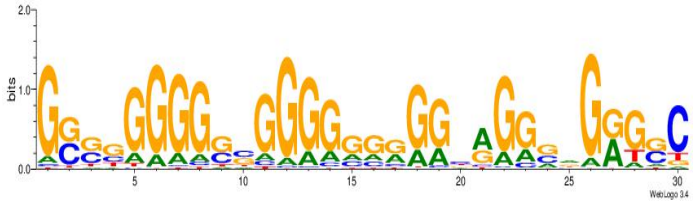
Alignment:

```
GSCYCHSCCYVCCYCCCCCCSSCCCCCSSC
--RRTCTCTCTCRRTCTCRR----------
```

Original motif Consensus sequence:
GSCYCHSCCYVCCYCCCCCCSSCCCCCSSC



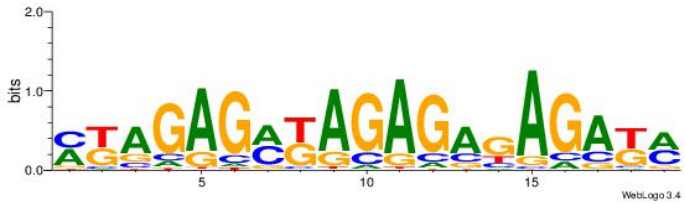
Reverse complement motif Consensus sequence:
GSSGGGGGSSGGGGGGKGGVMGGSHGKGSC

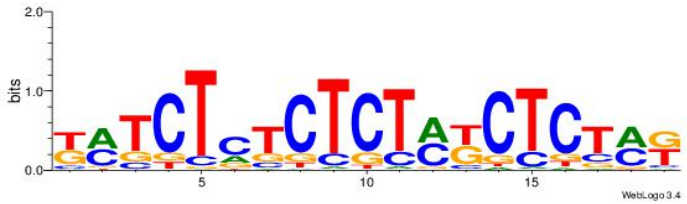


Dataset #: 1 Motif ID: 12 Motif name: C012

Original motif Consensus sequence: MKAGAGMKAGAGAGAGAKM

Reverse complement motif Consensus sequence:
YRTCTCTCTCTRYCTCTRR





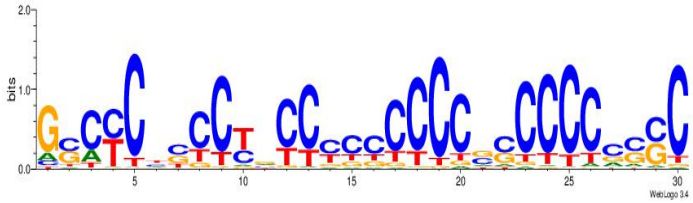
Best Matches for Motif ID 12 (Highest to Lowest)

Dataset #:	1
Motif ID:	3
Motif name:	C003
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	19
Similarity score:	0.0795922

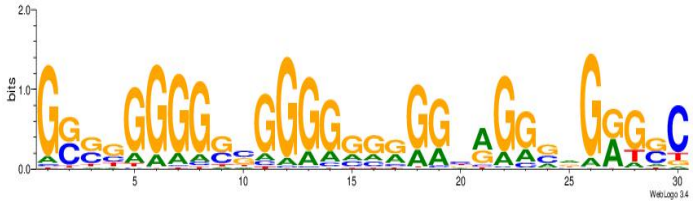
Alignment:

```
GSSGGGGGSSGGGGGGKGGVMGGSHGKGSC
---------MKAGAGMKAGAGAGAGAKM--
```

Original motif Consensus sequence:
GSCYCHSCCYVCCYCCCCCCSSCCCCCSSC



Reverse complement motif Consensus sequence:
GSSGGGGGSSGGGGGGKGGVMGGSHGKGSC

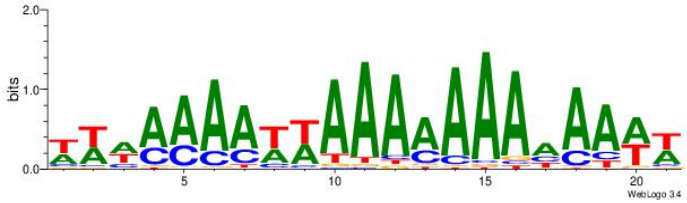


Dataset #:	1
Motif ID:	10
Motif name:	C010
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	19
Similarity score:	0.090302

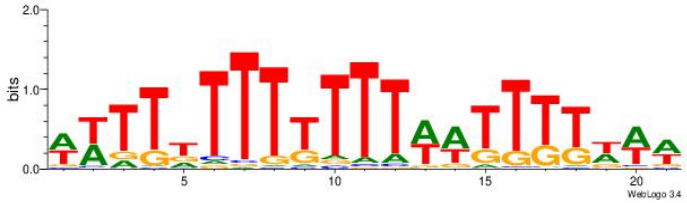
Alignment:

```
WWTTTTTTTTTTWWTTTTWWW
-YRTCTCTCTCTRYCTCTRR-
```

Original motif Consensus sequence: WWWAAAAWWAAAAAAAAAWW



Reverse complement motif Consensus sequence: WWTTTTTTTTTTWWTTTTWWW

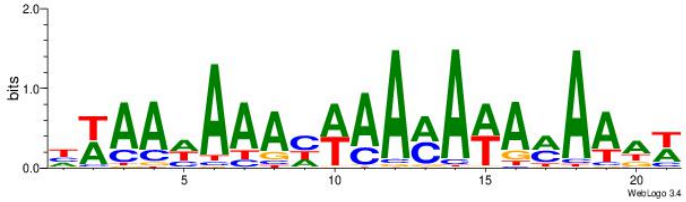


Dataset #:	1
Motif ID:	16
Motif name:	C016
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2

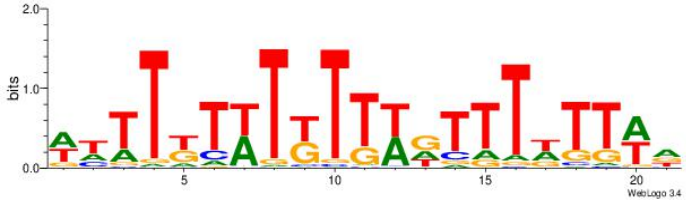
Number of overlap: 19
Similarity score: 0.0908644

Alignment:
WWTTYTWTYTTWDTTTWTTWH
-YRTCTCTCTCTRYCTCTRR-

Original motif Consensus sequence: HWAAWAAAHWAAMAWAMAAWW



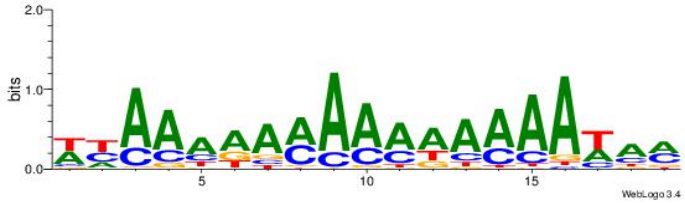
Reverse complement motif Consensus sequence: WWTTYTWTYTTWDTTTWTTWH



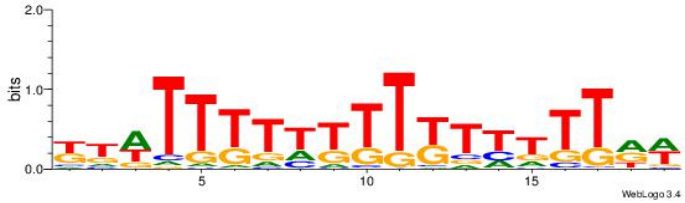
Dataset #: 1
Motif ID: 30
Motif name: C030
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.0978175

Alignment:
YTWTTTTTTTTYTTTTTMW
YRTCTCTCTCTRYCTCTRR

Original motif Consensus sequence: WYAAAAAMAAAAAAAAWAM



Reverse complement motif Consensus sequence: YTWTTTTTTTTYTTTTTMW

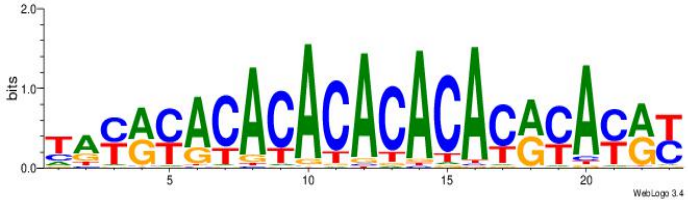


Dataset #:	1
Motif ID:	2
Motif name:	C002
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	19
Similarity score:	0.0979442

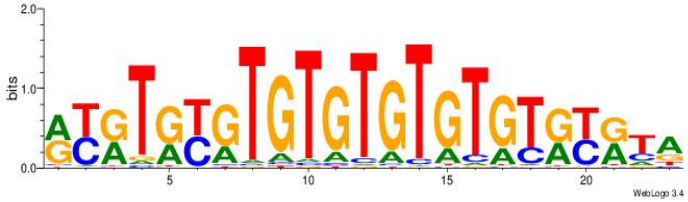
Alignment:

```
MKKTKKGTGTGTGTGTGTKKKTA
---YRTCTCTCTCTRYCTCTRR-
```

Original motif Consensus sequence: TAYRYACACACACACACRYAYRY

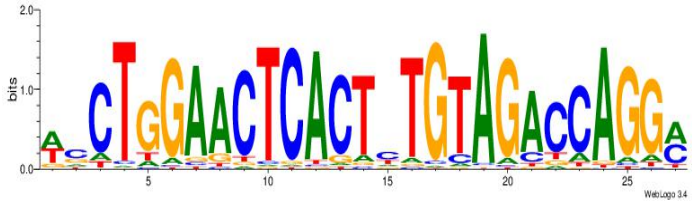


Reverse complement motif Consensus sequence: MKKTKKGTGTGTGTGTGTKKKTA

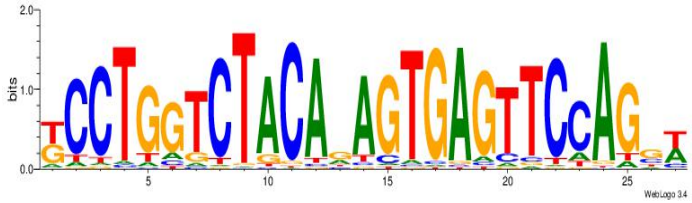


Dataset #: 1 Motif ID: 13 Motif name: C013

Original motif Consensus sequence:
WVCTGGAACTCACTHTGTAGACCAGGM



Reverse complement motif Consensus sequence:
YCCTGGTCTACADAGTGAGTTCCAGVW



Best Matches for Motif ID 13 (Highest to Lowest)

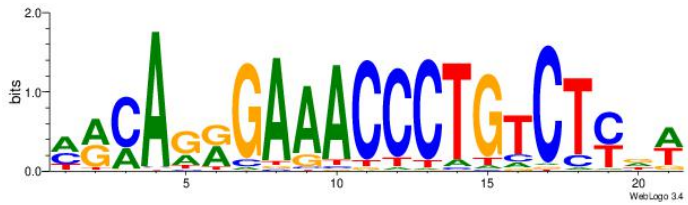
Dataset #:	1
Motif ID:	27
Motif name:	C027
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	21
Similarity score:	1.07948

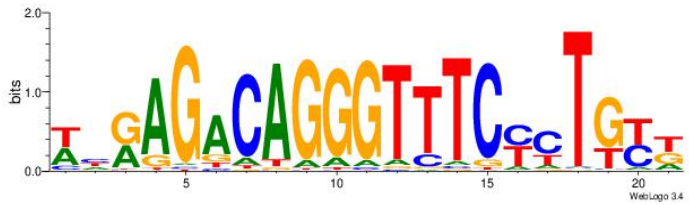
Alignment:

```
------WHKAGACAGGGTTTCMCTGKY
YCCTGGTCTACADAGTGAGTTCCAGVW
```

Original motif Consensus sequence: MRCAGRGAAACCCTGTCTYDW

Reverse complement motif Consensus sequence:
WHKAGACAGGGTTTCMCTGKY



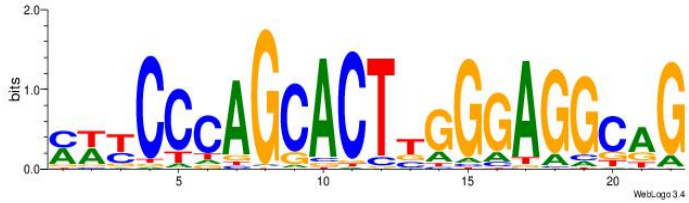


Dataset #:	1
Motif ID:	19
Motif name:	C019
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	20
Similarity score:	1.58576

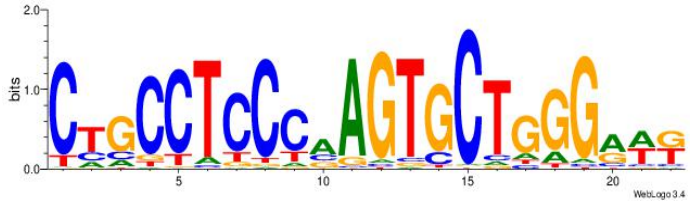
Alignment:

```
-------CTGCCTCCCAAGTGCTGGGMWR
YCCTGGTCTACADAGTGAGTTCCAGVW--
```

Original motif Consensus sequence: MWYCCCAGCACTTGGGAGGCAG



Reverse complement motif Consensus sequence: CTGCCTCCCAAGTGCTGGGMWR



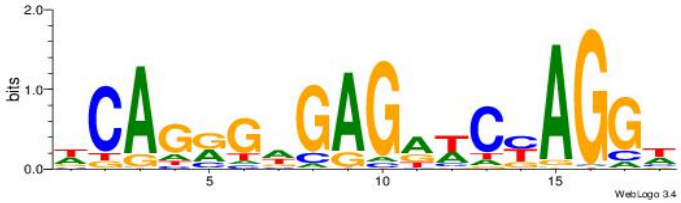
Dataset #:	1

Motif ID:	132
Motif name:	C132
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	2.53219

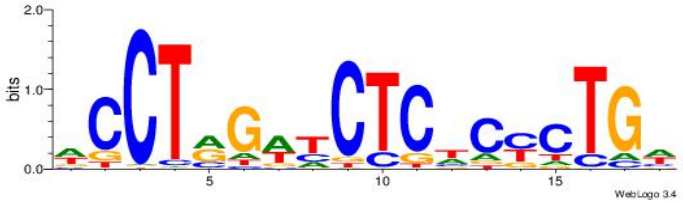
Alignment:

```
---------WCAGRGWGAGAWCYAGGW
YCCTGGTCTACADAGTGAGTTCCAGVW
```

Original motif Consensus sequence: WCAGRGWGAGAWCYAGGW



Reverse complement motif Consensus sequence: WCCTKGWTCTCWCMCTGW

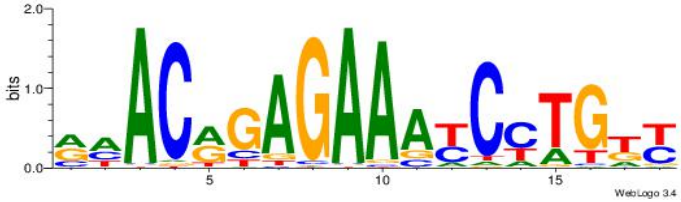


Dataset #:	1
Motif ID:	53
Motif name:	C053
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	18

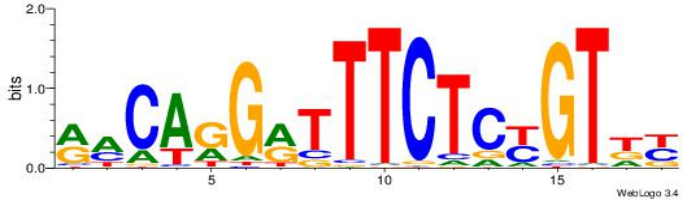
Similarity score: 2.56997

Alignment:
---------RMACRGAGAAAYCCTGKY
YCCTGGTCTACADAGTGAGTTCCAGVW

Original motif Consensus sequence: RMACRGAGAAAYCCTGKY



Reverse complement motif Consensus sequence: MRCAGGMTTTCTCKGTYK

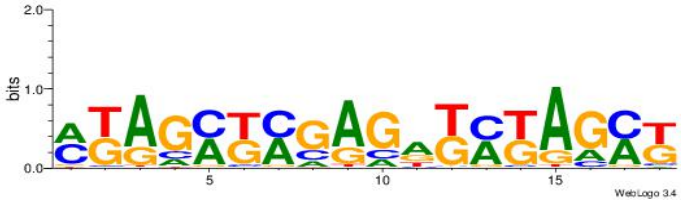


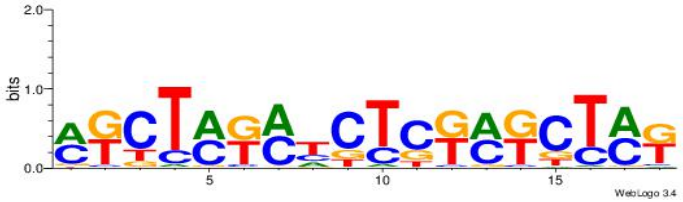
Dataset #: 1
Motif ID: 36
Motif name: C036
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 18
Similarity score: 2.57014

Alignment:
RRCTRRRTCTCRRRCTRY---------
WVCTGGAACTCACTHTGTAGACCAGGM

Original motif Consensus sequence: MKAGMKMGAGAKMKAGMK

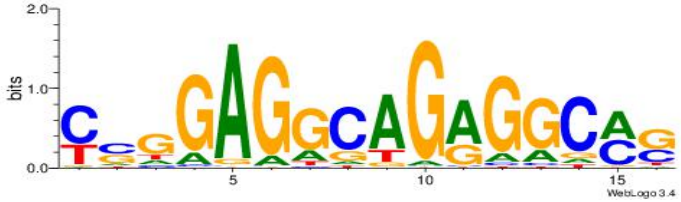
Reverse complement motif Consensus sequence: RRCTRRRTCTCRRRCTRY



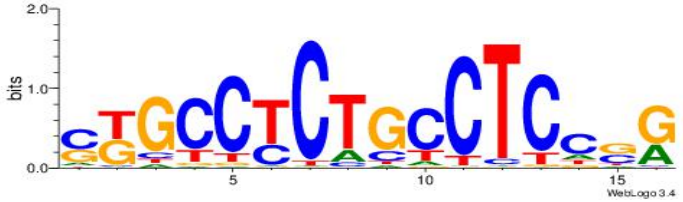


Dataset #: 1 **Motif ID: 14** **Motif name: C014**

Original motif Consensus sequence: YSGGAGGCAGAGGCMS



Reverse complement motif Consensus sequence: SYGCCTCTGCCTCCSK



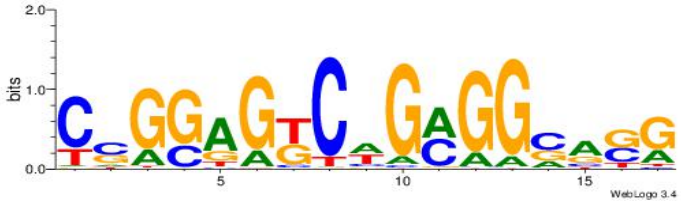
Best Matches for Motif ID 14 (Highest to Lowest)

Dataset #:	1
Motif ID:	86
Motif name:	C086
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.0100715

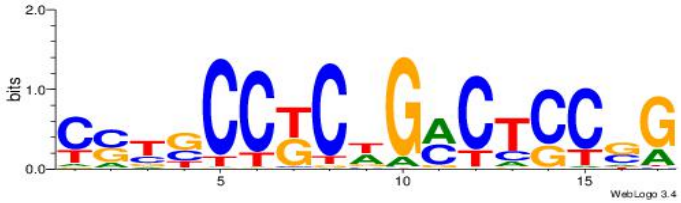
Alignment:

CSGGAGKCWGMGGSASG
YSGGAGGCAGAGGCMS-

Original motif Consensus sequence: CSGGAGKCWGMGGSASG



Reverse complement motif Consensus sequence: CSTSCCYCWGRCTCCSG

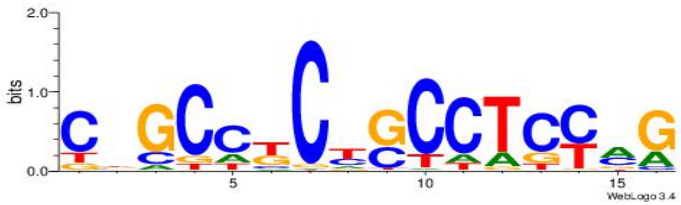


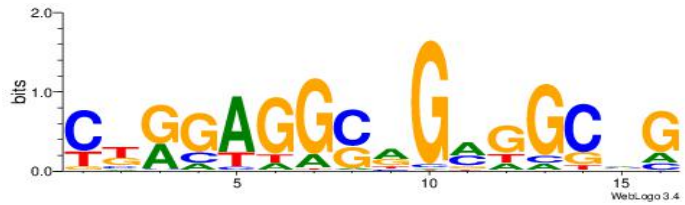
Dataset #:	1
Motif ID:	50
Motif name:	C050
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.0116342

Alignment:
CBGCCKCYSCCTCYMG
SYGCCTCTGCCTCCSK

Original motif Consensus sequence: CBGCCKCYSCCTCYMG

Reverse complement motif Consensus sequence: CYKGAGGSMGRGGCVG

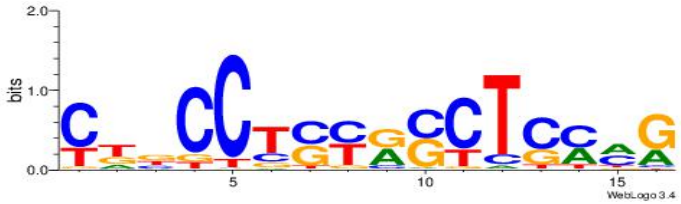




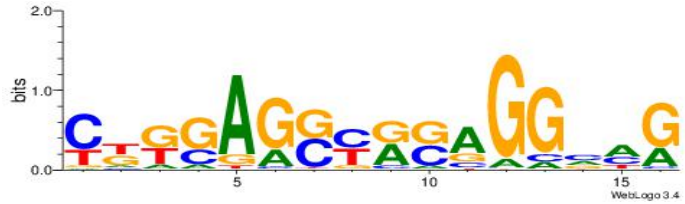
Dataset #: 1
Motif ID: 83
Motif name: C083
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 16
Similarity score: 0.0348886

Alignment:
CKBCCTSYRSCTCMMG
SYGCCTCTGCCTCCSK

Original motif Consensus sequence: CKBCCTSYRSCTCMMG



Reverse complement motif Consensus sequence: CYRGAGSMKSAGGBRG



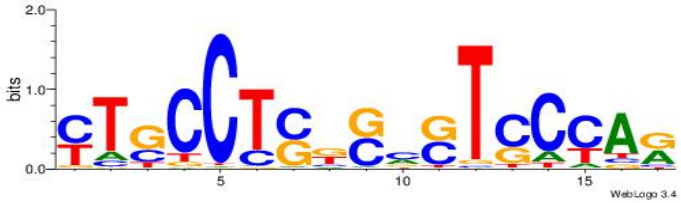
Dataset #: 1

Motif ID:	101
Motif name:	C101
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	16
Similarity score:	0.0376801

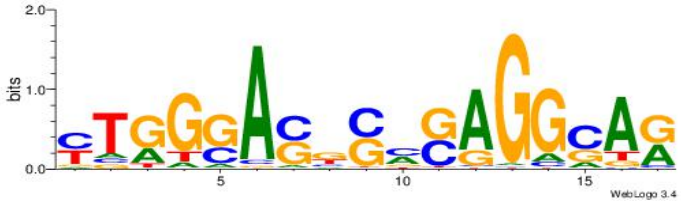
Alignment:

```
MTGGGASVSYSAGGSAK
-YSGGAGGCAGAGGCMS
```

Original motif Consensus sequence: YTSCCTSKSVSTCCCAR



Reverse complement motif Consensus sequence: MTGGGASVSYSAGGSAK

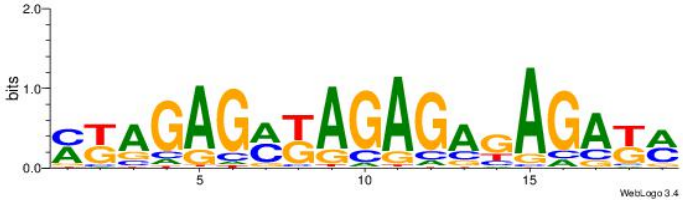


Dataset #:	1
Motif ID:	12
Motif name:	C012
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	16

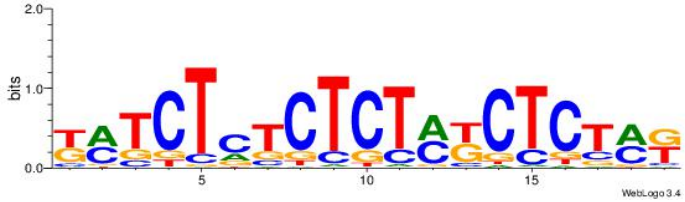
Similarity score: 0.0398723

Alignment:
YRTCTCTCTCTRYCTCTRR
---SYGCCTCTGCCTCCSK

Original motif Consensus sequence: MKAGAGMKAGAGAGAGAKM

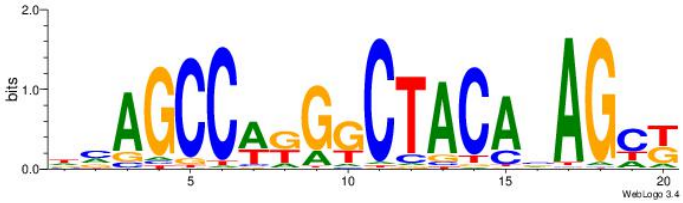


Reverse complement motif Consensus sequence:
YRTCTCTCTCTRYCTCTRR

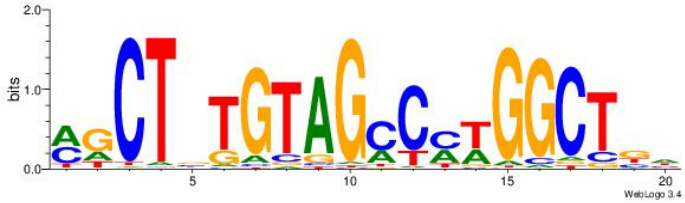


Dataset #: 1 Motif ID: 15 Motif name: C015

Original motif Consensus sequence: DVAGCCWKGGCTACAVAGCK



Reverse complement motif Consensus sequence:
RGCTVTGTAGCCYWGGCTVD



Best Matches for Motif ID 15 (Highest to Lowest)

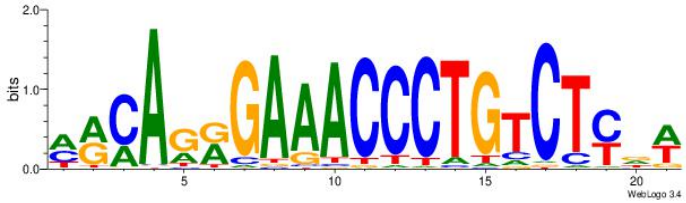
Dataset #:	1
Motif ID:	27
Motif name:	C027
Matching format of first motif:	Original Motif

Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	20
Similarity score:	0.0455946

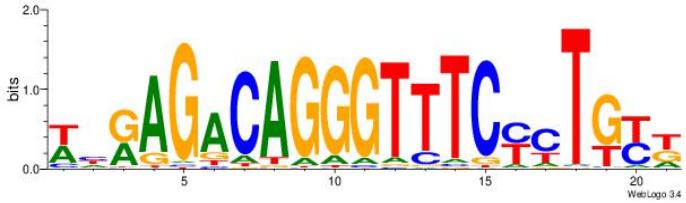
Alignment:

```
WHKAGACAGGGTTTCMCTGKY
-DVAGCCWKGGCTACAVAGCK
```

Original motif Consensus sequence: MRCAGRGAAACCCTGTCTYDW



Reverse complement motif Consensus sequence: WHKAGACAGGGTTTCMCTGKY

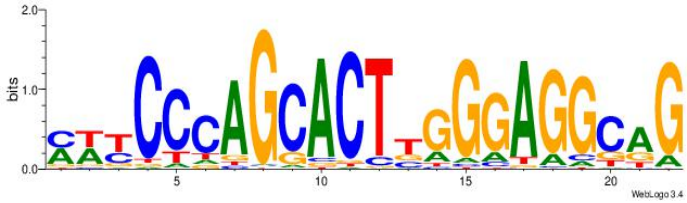


Dataset #:	1
Motif ID:	19
Motif name:	C019
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.0624466

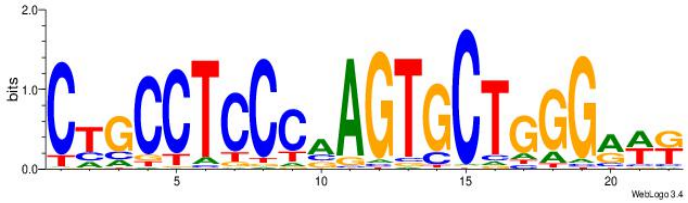
Alignment:

CTGCCTCCCAAGTGCTGGGMWR
--RGCTVTGTAGCCYWGGCTVD

Original motif Consensus sequence: MWYCCCAGCACTTGGGAGGCAG



Reverse complement motif Consensus sequence: CTGCCTCCCAAGTGCTGGGMWR

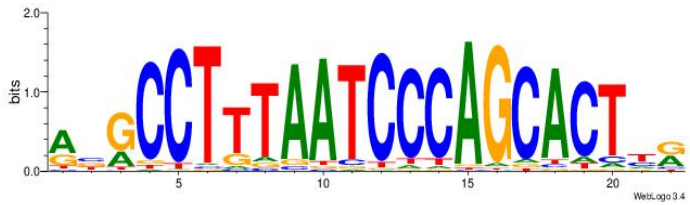


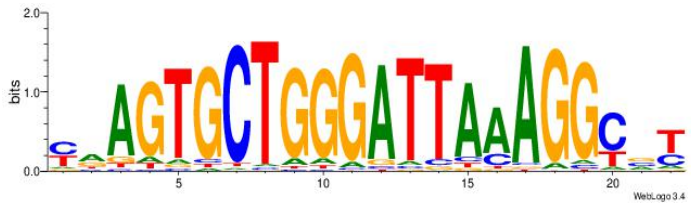
Dataset #:	1
Motif ID:	9
Motif name:	C009
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	20
Similarity score:	0.0690755

Alignment:
ABGCCTTTAATCCCAGCACTHR
-RGCTVTGTAGCCYWGGCTVD-

Original motif Consensus sequence: ABGCCTTTAATCCCAGCACTHR

Reverse complement motif Consensus sequence: MHAGTGCTGGGATTAAAGGCBT



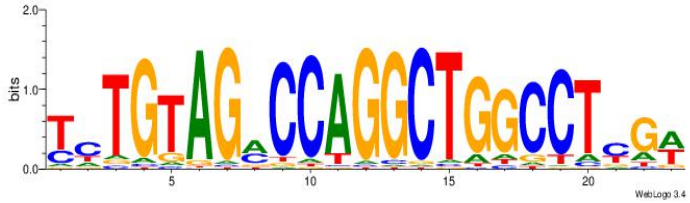


Dataset #:	1
Motif ID:	5
Motif name:	C005
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	20
Similarity score:	0.0692469

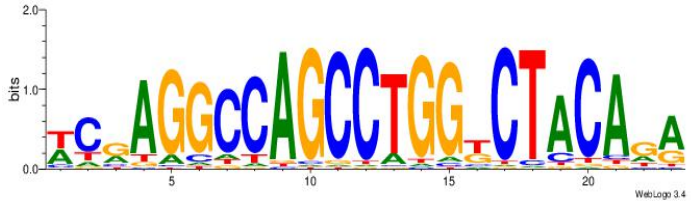
Alignment:

```
TCTGTAGMCCAGGCTGGCCTYGW
---DVAGCCWKGGCTACAVAGCK
```

Original motif Consensus sequence: TCTGTAGMCCAGGCTGGCCTYGW



Reverse complement motif Consensus sequence: WCKAGGCCAGCCTGGYCTACAGA



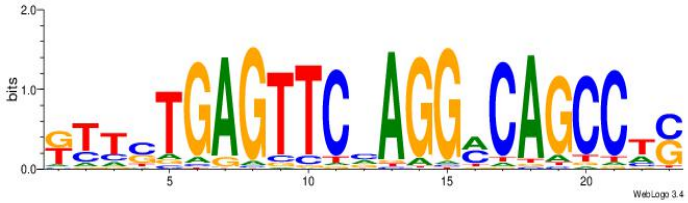
Dataset #:	1

Motif ID:	7
Motif name:	C007
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	19
Similarity score:	0.560476

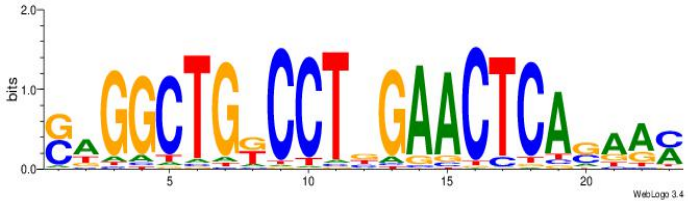
Alignment:

```
-SAGGCTGYCCTVGAACTCASAAY
DVAGCCWKGGCTACAVAGCK----
```

Original motif Consensus sequence: KTTSTGAGTTCVAGGMCAGCCTS

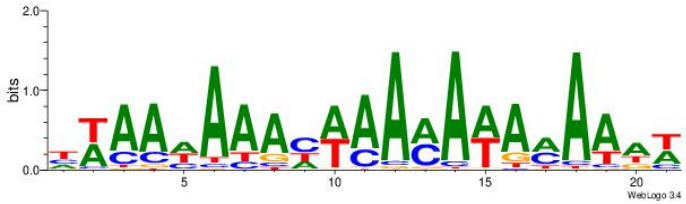


Reverse complement motif Consensus sequence: SAGGCTGYCCTVGAACTCASAAY

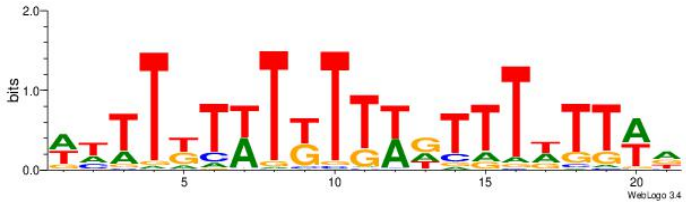


Dataset #: 1 Motif ID: 16 Motif name: C016

Original motif Consensus sequence: HWAAWAAAHWAAMAWAMAAWW



Reverse complement motif Consensus sequence: WWTTYTWTYTTWDTTTWTTWH



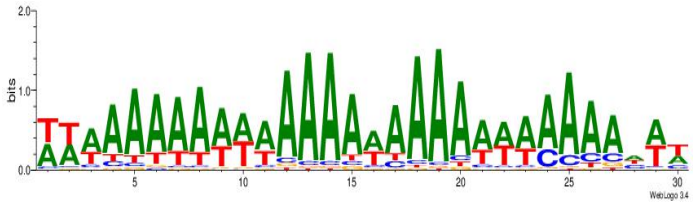
Best Matches for Motif ID 16 (Highest to Lowest)

Dataset #:	1
Motif ID:	1
Motif name:	C001
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	9
Number of overlap:	21
Similarity score:	0.00714978

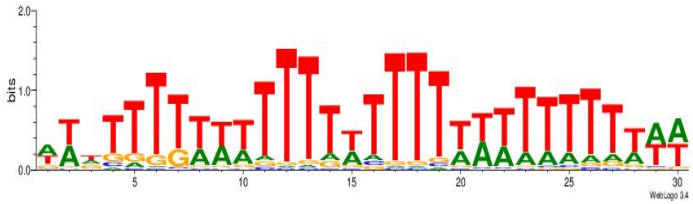
Alignment:

```
WWHTTTTWWTTTTTWTTTTTWWTTTTTWWW
--------WWTTYTWTYTTWDTTTWTTWH-
```

Original motif Consensus sequence:
WWWAAAAAWWAAAAAWAAAAAWWAAAAHWW



Reverse complement motif Consensus sequence:
WWHTTTTWWTTTTTWTTTTTWWTTTTTWWW

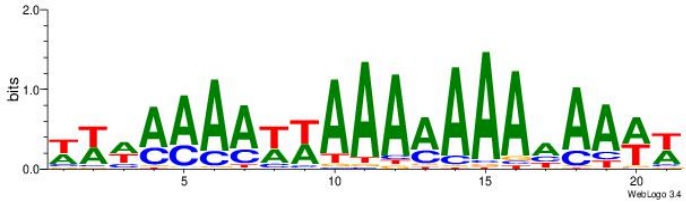


Dataset #:	1
Motif ID:	10
Motif name:	C010
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif

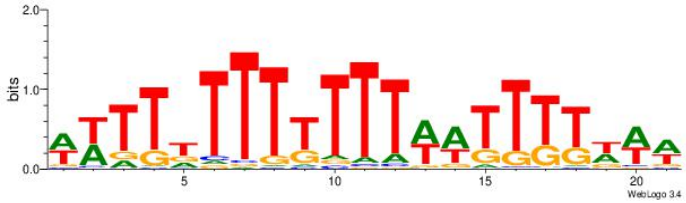
Direction:	Backward
Position number:	1
Number of overlap:	21
Similarity score:	0.00880991

Alignment:
WWWAAAAWWAAAAAAAAAAWW
HWAAWAAAHWAAMAWAMAAWW

Original motif Consensus sequence: WWWAAAAWWAAAAAAAAAAWW



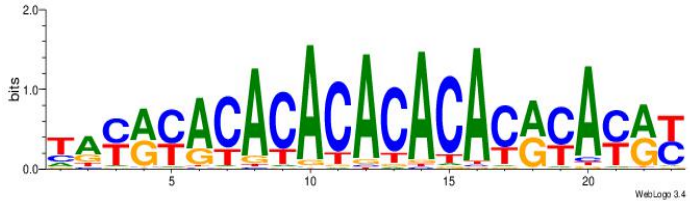
Reverse complement motif Consensus sequence: WWTTTTTTTTTTWWTTTTWWW



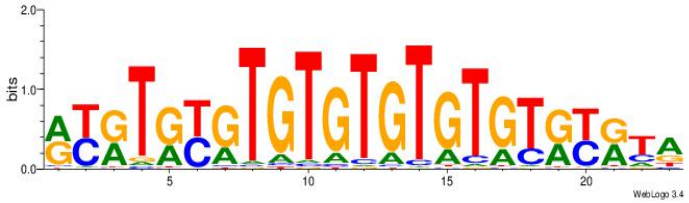
Dataset #:	1
Motif ID:	2
Motif name:	C002
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	21
Similarity score:	0.0521896

Alignment:
TAYRYACACACACACACRYAYRY
--HWAAWAAAHWAAMAWAMAAWW

Original motif Consensus sequence: TAYRYACACACACACACRYAYRY



Reverse complement motif Consensus sequence: MKKTKKGTGTGTGTGTGTKKKTA

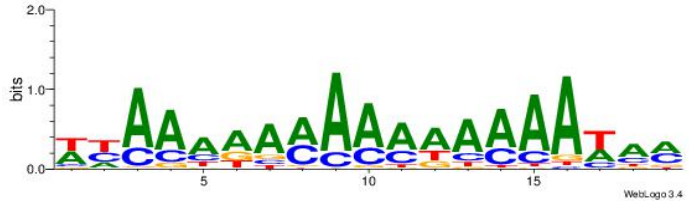


Dataset #:	1
Motif ID:	30
Motif name:	C030
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	1.02826

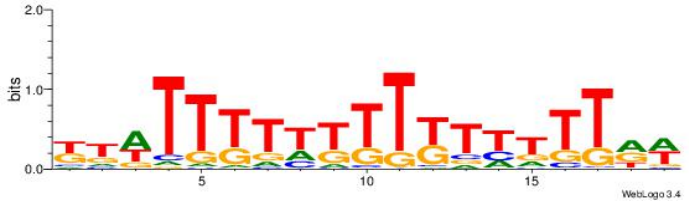
Alignment:

```
WYAAAAAMAAAAAAAAWAM--
HWAAWAAAHWAAMAWAMAAWW
```

Original motif Consensus sequence: WYAAAAAMAAAAAAAAWAM



Reverse complement motif Consensus sequence: YTWTTTTTTTTYTTTTTMW

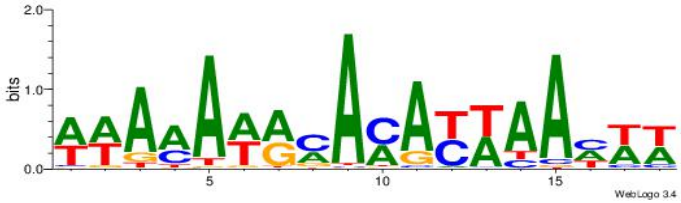


Dataset #:	1
Motif ID:	62
Motif name:	C062
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	1.52114

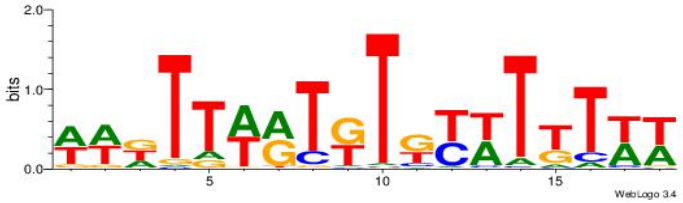
Alignment:

```
---WWAMAWRMAMAYWAAHWW
HWAAWAAAHWAAMAWAMAAWW
```

Original motif Consensus sequence: WWAMAWRMAMAYWAAHWW



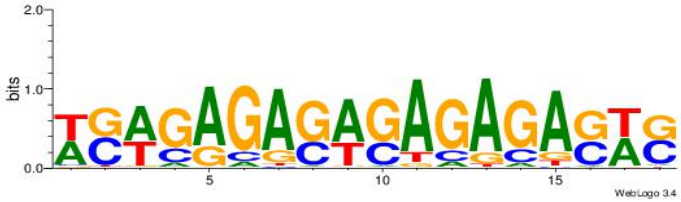
Reverse complement motif Consensus sequence: WWDTTWMTRTRKWTYTWW

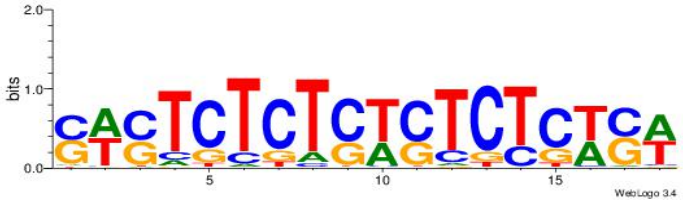


Dataset #: 1 Motif ID: 17 Motif name: C017

Original motif Consensus sequence: WSWGAGASWSAGAGASWS

Reverse complement motif Consensus sequence: SWSTCTCTSWSTCTCWSW





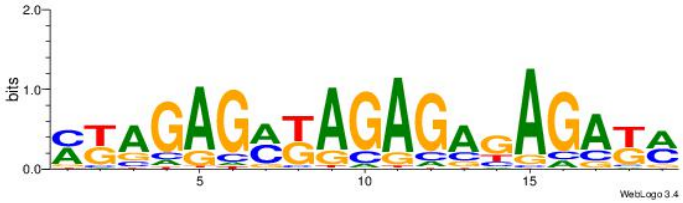
Best Matches for Motif ID 17 (Highest to Lowest)

Dataset #:	1
Motif ID:	12
Motif name:	C012
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.0157523

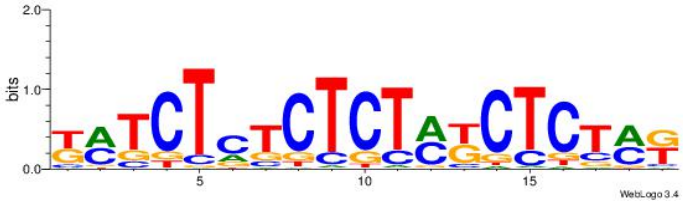
Alignment:

```
MKAGAGMKAGAGAGAGAKM
WSWGAGASWSAGAGASWS-
```

Original motif Consensus sequence: MKAGAGMKAGAGAGAGAKM



Reverse complement motif Consensus sequence: YRTCTCTCTCTRYCTCTRR

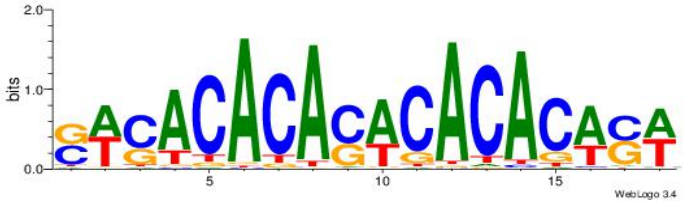


Dataset #:	1
Motif ID:	6
Motif name:	C006
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.0313003

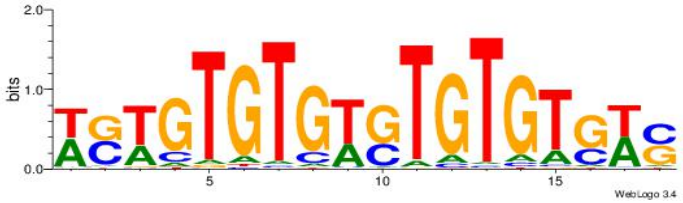
Alignment:

```
SWCACACASWCACACWSW
SWSTCTCTSWSTCTCWSW
```

Original motif Consensus sequence: SWCACACASWCACACWSW



Reverse complement motif Consensus sequence: WSWGTGTGWSTGTGTGWS

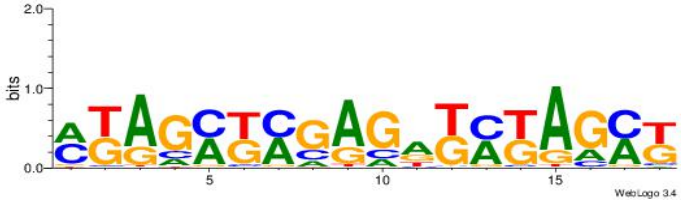


Dataset #:	1
Motif ID:	36
Motif name:	C036
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

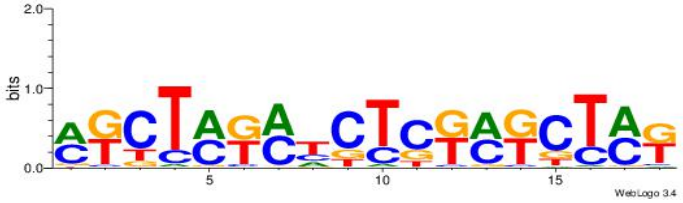
Number of overlap: 18
Similarity score: 0.0395256

Alignment:
MKAGMKMGAGAKMKAGMK
WSWGAGASWSAGAGASWS

Original motif Consensus sequence: MKAGMKMGAGAKMKAGMK



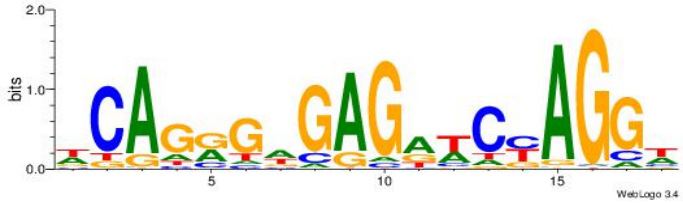
Reverse complement motif Consensus sequence: RRCTRRRTCTCRRRCTRY



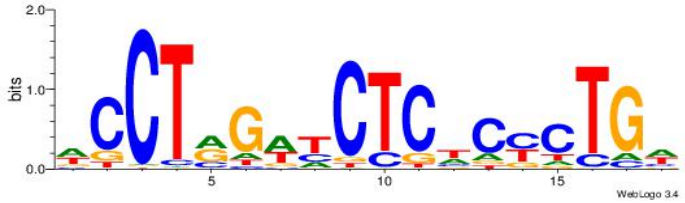
Dataset #: 1
Motif ID: 132
Motif name: C132
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 18
Similarity score: 0.0518509

Alignment:
WCAGRGWGAGAWCYAGGW
WSWGAGASWSAGAGASWS

Original motif Consensus sequence: WCAGRGWGAGAWCYAGGW



Reverse complement motif Consensus sequence: WCCTKGWTCTCWCMCTGW

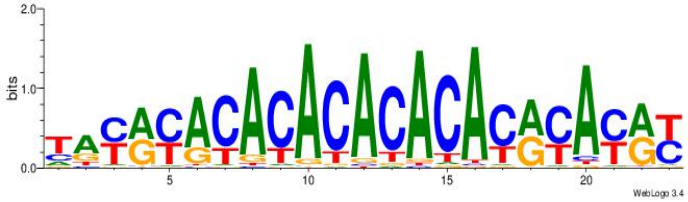


Dataset #:	1
Motif ID:	2
Motif name:	C002
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	18
Similarity score:	0.0559963

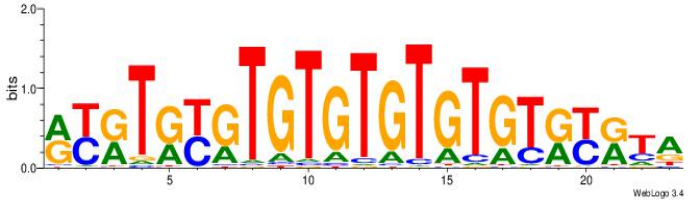
Alignment:

```
TAYRYACACACACACACRYAYRY
-WSWGAGASWSAGAGASWS----
```

Original motif Consensus sequence: TAYRYACACACACACACRYAYRY

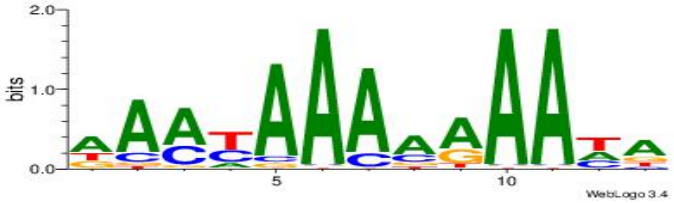


Reverse complement motif Consensus sequence: MKKTKKGTGTGTGTGTGTKKKTA

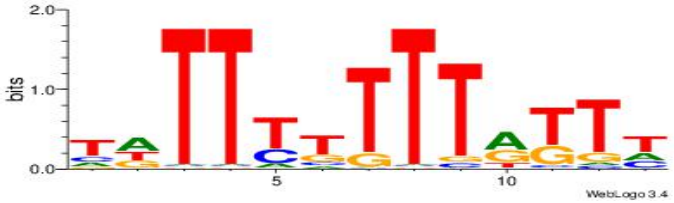


Dataset #: 1 **Motif ID: 18** **Motif name: C018**

Original motif Consensus sequence: AAMYAAAAAAAHA



Reverse complement motif Consensus sequence: THTTTTTTTMYTT



Best Matches for Motif ID 18 (Highest to Lowest)

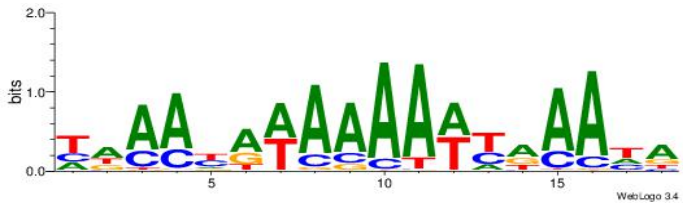
Dataset #:	1
Motif ID:	24
Motif name:	C024
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.00879109

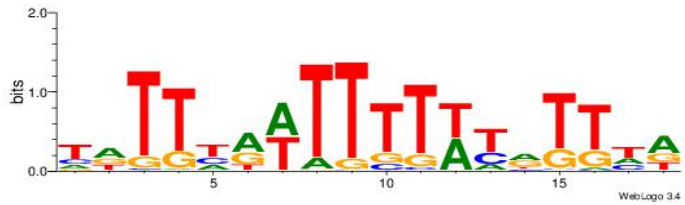
Alignment:

```
THTTDMWTTTTWKMTTDA
----THTTTTTTTMYTT-
```

Original motif Consensus sequence: TDAAYRWAAAAWYDAAHA

Reverse complement motif Consensus sequence: THTTDMWTTTTWKMTTDA

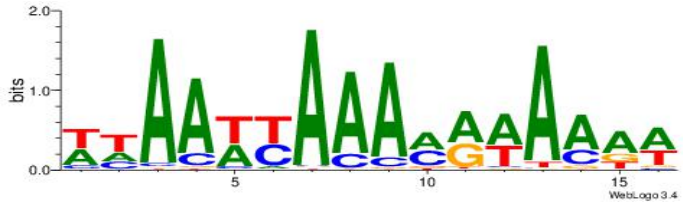




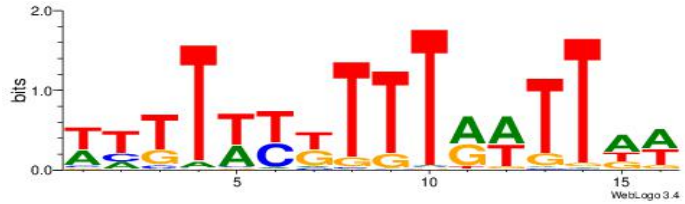
Dataset #: 1
Motif ID: 33
Motif name: C033
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 13
Similarity score: 0.0101683

Alignment:
WTTTWKYTTTMWTTWW
-THTTTTTTTMYTT--

Original motif Consensus sequence: WWAAWYAAAMRWAAAW



Reverse complement motif Consensus sequence: WTTTWKYTTTMWTTWW



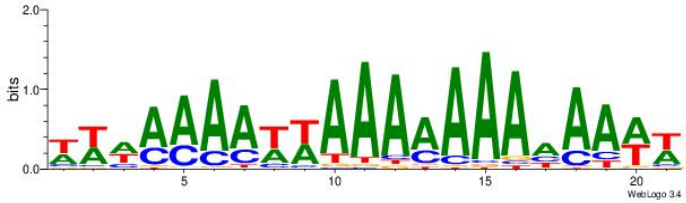
Dataset #: 1

Motif ID:	10
Motif name:	C010
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	13
Similarity score:	0.0128694

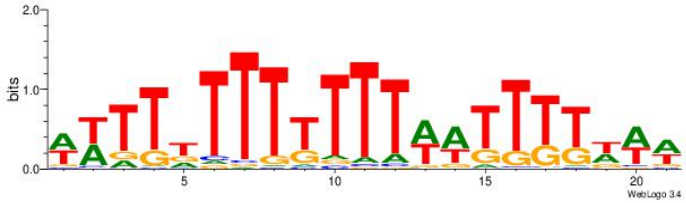
Alignment:

```
WWWAAAAWWAAAAAAAAAAWW
-----AAMYAAAAAAAHA---
```

Original motif Consensus sequence: WWWAAAAWWAAAAAAAAAAWW



Reverse complement motif Consensus sequence: WWTTTTTTTTTTWWTTTTWWW



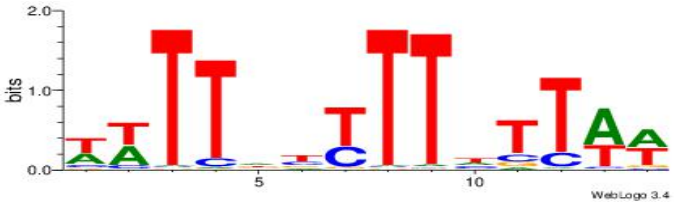
Dataset #:	1
Motif ID:	131
Motif name:	C131
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13

Similarity score: 0.0136352

Alignment:
WWAADAARVHAAWW
-AAMYAAAAAAAHA

Original motif Consensus sequence: WWAADAARVHAAWW

Reverse complement motif Consensus sequence: WWTTHBKTTDTTW

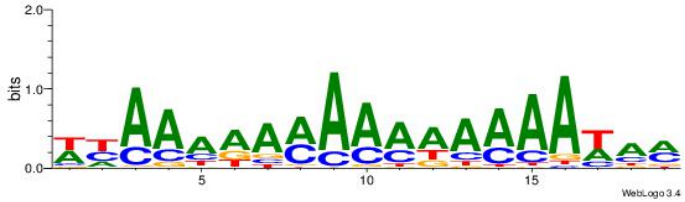


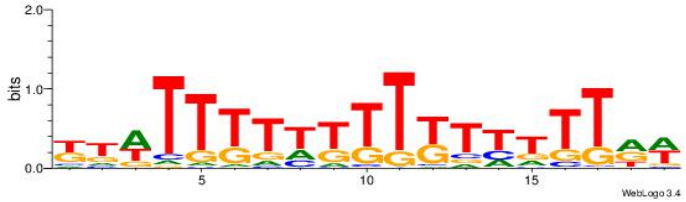
Dataset #: 1
Motif ID: 30
Motif name: C030
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 6
Number of overlap: 13
Similarity score: 0.0161198

Alignment:
YTWTTTTTTTTYTTTTTMW
-THTTTTTTMYTT-----

Original motif Consensus sequence: WYAAAAAMAAAAAAAAWAM

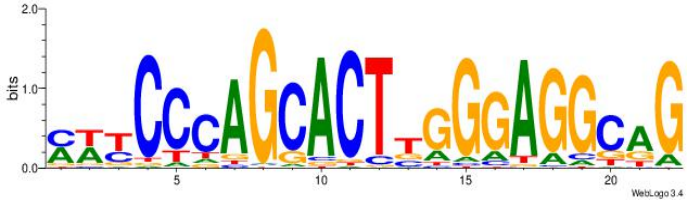
Reverse complement motif Consensus sequence: YTWTTTTTTTTYTTTTTMW



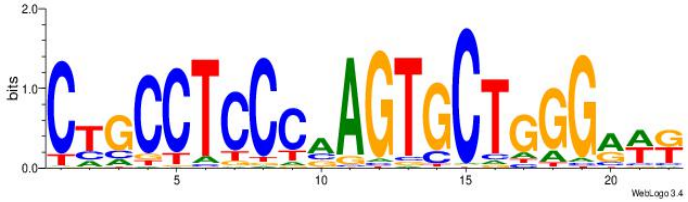


Dataset #: 1 **Motif ID: 19** **Motif name: C019**

Original motif Consensus sequence: MWYCCCAGCACTTGGGAGGCAG



Reverse complement motif Consensus sequence: CTGCCTCCCAAGTGCTGGGMWR



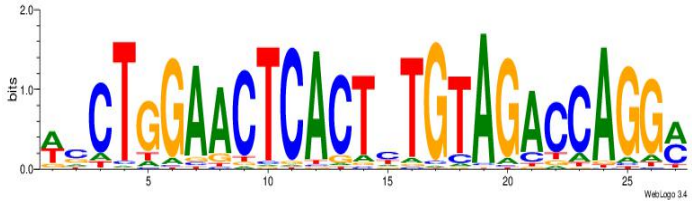
Best Matches for Motif ID 19 (Highest to Lowest)

Dataset #:	1
Motif ID:	13
Motif name:	C013
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	22
Similarity score:	0.0741117

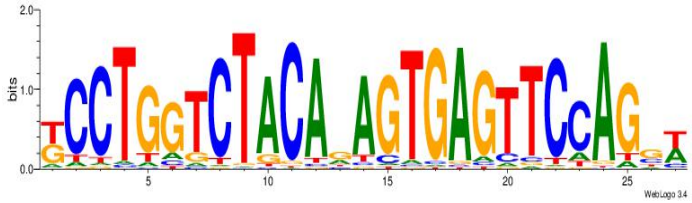
Alignment:

YCCTGGTCTACADAGTGAGTTCCAGVW
---CTGCCTCCCAAGTGCTGGGMWR--

Original motif Consensus sequence:
WVCTGGAACTCACTHTGTAGACCAGGM



Reverse complement motif Consensus sequence:
YCCTGGTCTACADAGTGAGTTCCAGVW

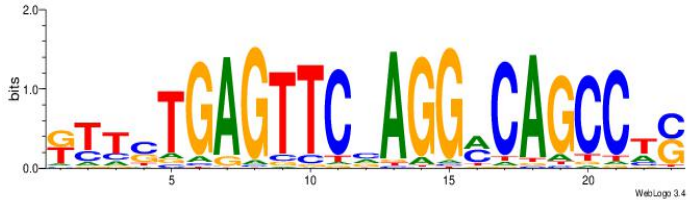


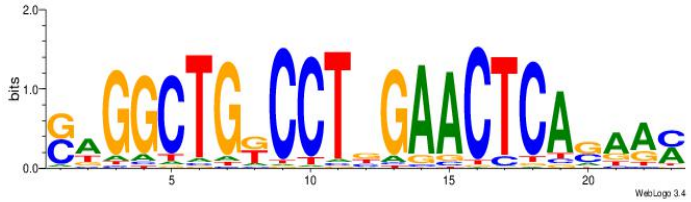
Dataset #:	1
Motif ID:	7
Motif name:	C007
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	22
Similarity score:	0.0774233

Alignment:
SAGGCTGYCCTVGAACTCASAAY
-CTGCCTCCCAAGTGCTGGGMWR

Original motif Consensus sequence: KTTSTGAGTTCVAGGMCAGCCTS

Reverse complement motif Consensus sequence:
SAGGCTGYCCTVGAACTCASAAY



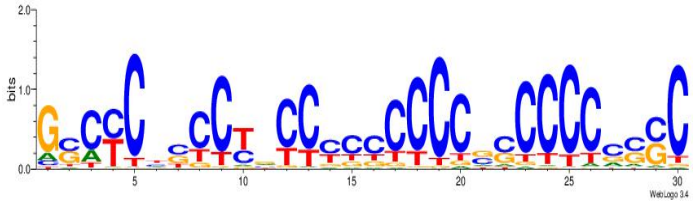


Dataset #:	1
Motif ID:	3
Motif name:	C003
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	22
Similarity score:	0.0793936

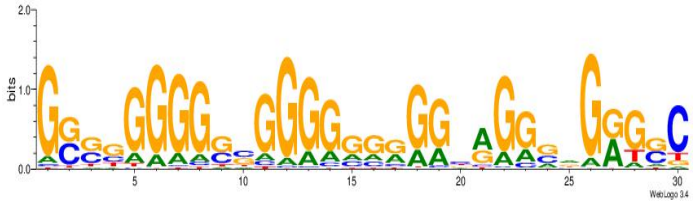
Alignment:

```
GSCYCHSCCYVCCYCCCCCCSSCCCCCSSC
----CTGCCTCCCAAGTGCTGGGMWR----
```

Original motif Consensus sequence:
GSCYCHSCCYVCCYCCCCCCSSCCCCCSSC



Reverse complement motif Consensus sequence:
GSSGGGGGSSGGGGGGKGGVMGGSHGKGSC



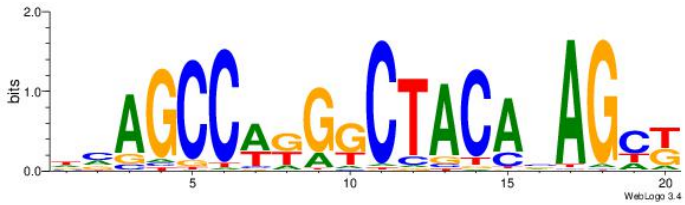
Dataset #:	1

Motif ID:	15
Motif name:	C015
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	1.07305

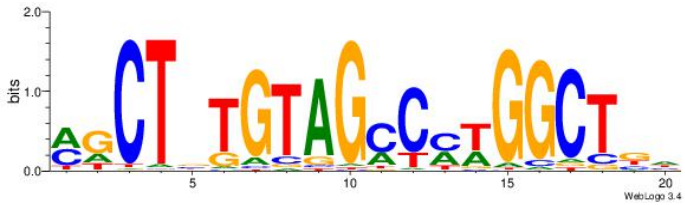
Alignment:

```
--RGCTVTGTAGCCYWGGCTVD
CTGCCTCCCAAGTGCTGGGMWR
```

Original motif Consensus sequence: DVAGCCWKGGCTACAVAGCK



Reverse complement motif Consensus sequence: RGCTVTGTAGCCYWGGCTVD

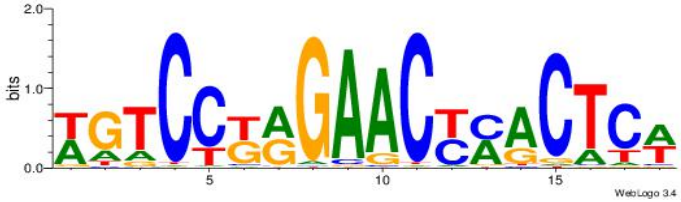


Dataset #:	1
Motif ID:	42
Motif name:	C042
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	18

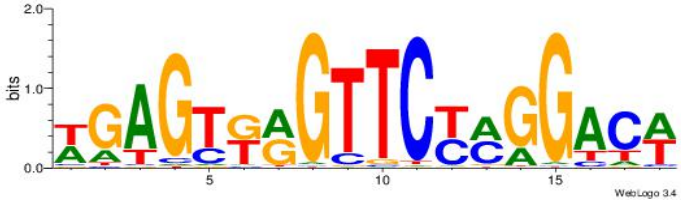
Similarity score: 2.06763

Alignment:
----WGAGTRMGTTCKRGGACW
CTGCCTCCCAAGTGCTGGGMWR

Original motif Consensus sequence: WGTCCKRGAACYMACTCW

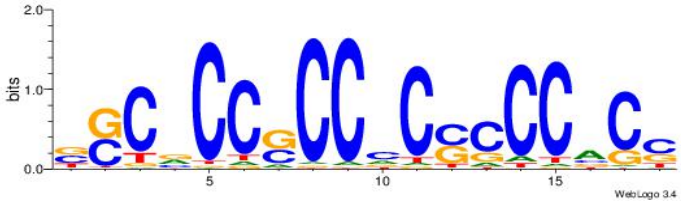


Reverse complement motif Consensus sequence: WGAGTRMGTTCKRGGACW

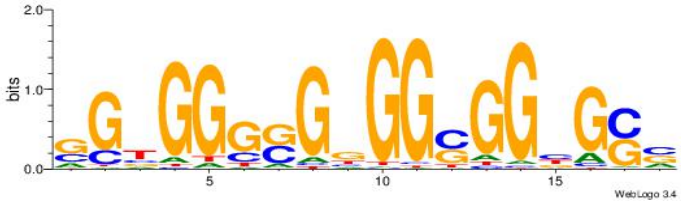


Dataset #: 1 Motif ID: 20 Motif name: C020

Original motif Consensus sequence: BSCVCCSCCVCSCCCACS



Reverse complement motif Consensus sequence: SGTGGGSGVGGSGGVGSB



Best Matches for Motif ID 20 (Highest to Lowest)

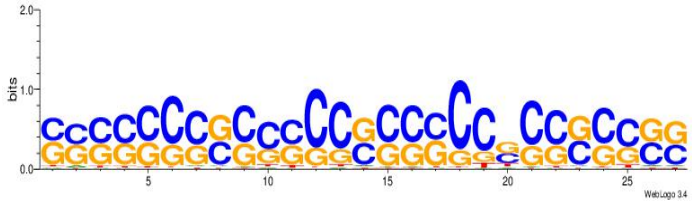
Dataset #:	1
Motif ID:	4
Motif name:	C004
Matching format of first motif:	Reverse Complement

Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	18
Similarity score:	0.0217831

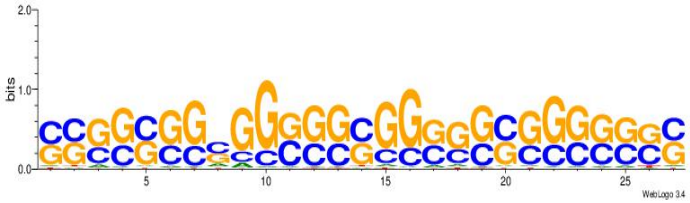
Alignment:

```
SSSSSSGSGGSSSSGGSSSSSGSSSSS
-----SGTGGGSGVGGSGGVGSB----
```

Original motif Consensus sequence:
SSSSSCSSSSSCCSSSSCCSCSSSSSS



Reverse complement motif Consensus sequence:
SSSSSSGSGGSSSSGGSSSSSGSSSSS

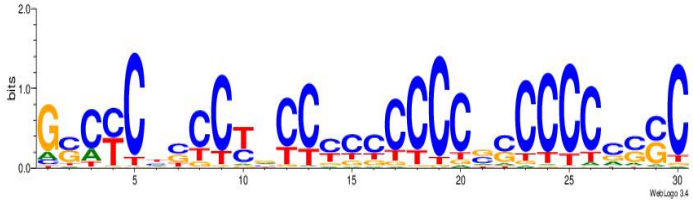


Dataset #:	1
Motif ID:	3
Motif name:	C003
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	10
Number of overlap:	18
Similarity score:	0.0273212

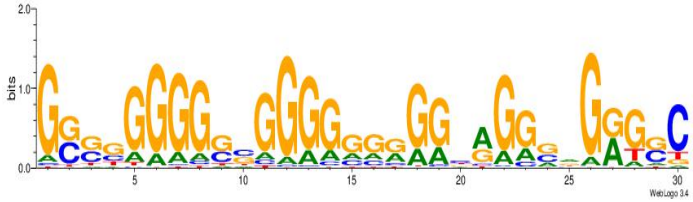
Alignment:

GSCYCHSCCYVCCYCCCCCCSSCCCCCSSC
---------BSCVCCSCCVCSCCCACS---

Original motif Consensus sequence:
GSCYCHSCCYVCCYCCCCCCSSCCCCCSSC



Reverse complement motif Consensus sequence:
GSSGGGGGSSGGGGGGKGGVMGGSHGKGSC

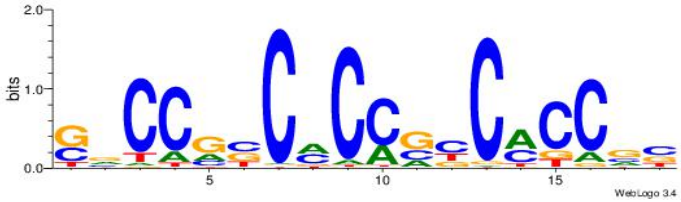


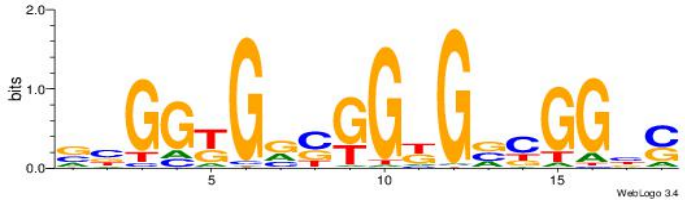
Dataset #:	1
Motif ID:	37
Motif name:	C037
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.0555507

Alignment:
SVCCGBCMCCSYCMCCVB
BSCVCCSCCVCSCCCACS

Original motif Consensus sequence: SVCCGBCMCCSYCMCCVB

Reverse complement motif Consensus sequence:
BVGGYGKSGGYGBCGGVS

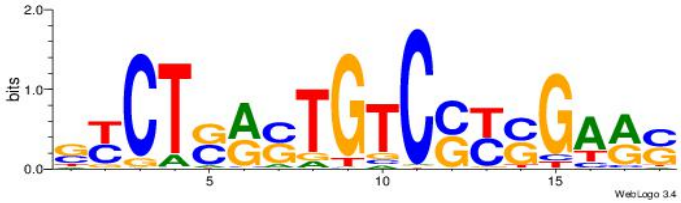




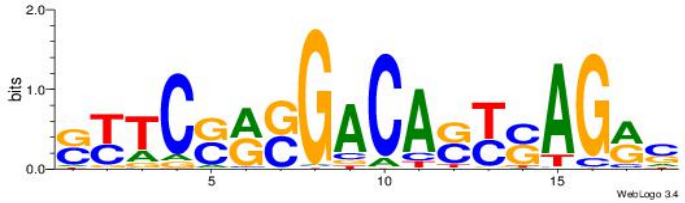
Dataset #:	1
Motif ID:	128
Motif name:	C128
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.0687296

Alignment:
SKTCSMSGACASKSAGMS
SGTGGGSGVGGSGGVGSB

Original motif Consensus sequence: SYCTSRSTGTCSYSGARS



Reverse complement motif Consensus sequence: SKTCSMSGACASKSAGMS



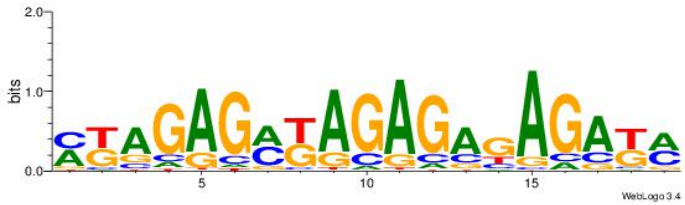
Dataset #:	1

Motif ID:	12
Motif name:	C012
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.0738675

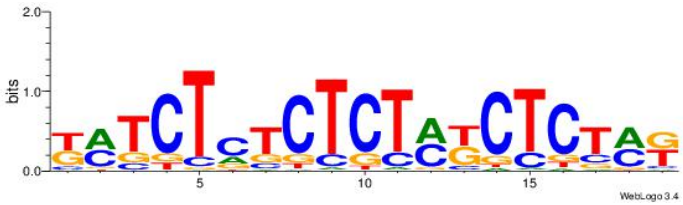
Alignment:

```
YRTCTCTCTCTRYCTCTRR
BSCVCCSCCVCSCCCACS-
```

Original motif Consensus sequence: MKAGAGMKAGAGAGAGAKM

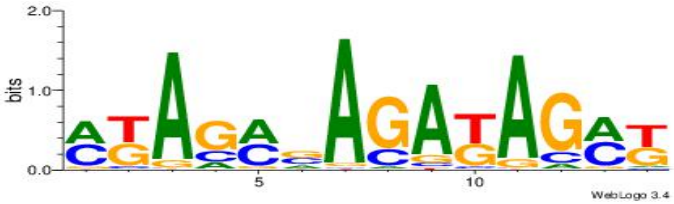


Reverse complement motif Consensus sequence: YRTCTCTCTCTRYCTCTRR

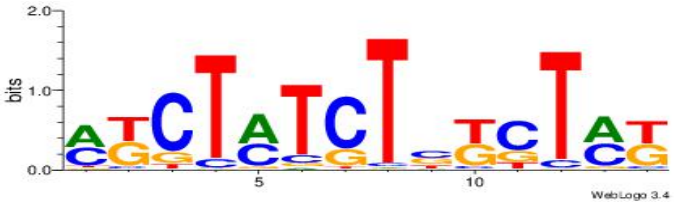


Dataset #: 1 Motif ID: 21 Motif name: C021

Original motif Consensus sequence: MKAGMVAGAKAGMK



Reverse complement motif Consensus sequence: RYCTRTCTVYCTRY



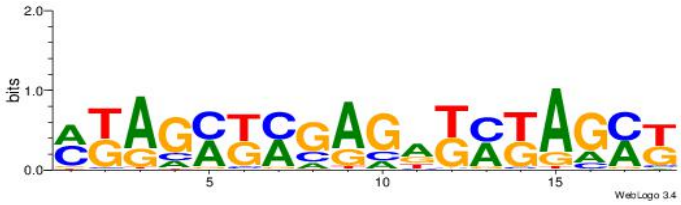
Best Matches for Motif ID 21 (Highest to Lowest)

Dataset #:	1
Motif ID:	36
Motif name:	C036
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.0195753

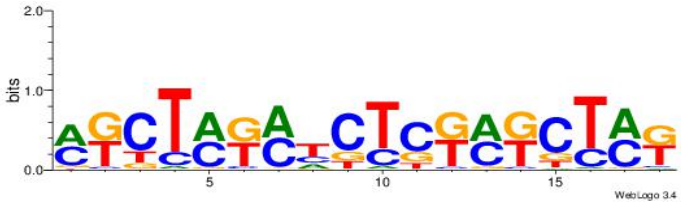
Alignment:

```
MKAGMKMGAGAKMKAGMK
----MKAGMVAGAKAGMK
```

Original motif Consensus sequence: MKAGMKMGAGAKMKAGMK



Reverse complement motif Consensus sequence: RRCTRRRTCTCRRRCTRY

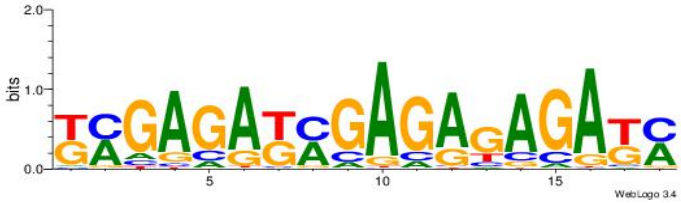


Dataset #:	1
Motif ID:	11
Motif name:	C011
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif

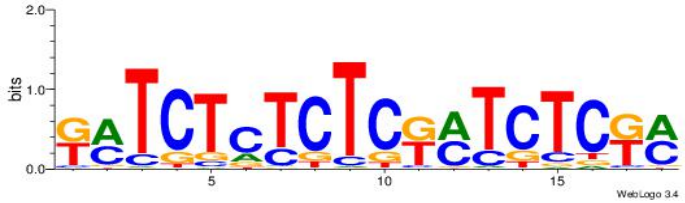
Direction:	Forward
Position number:	4
Number of overlap:	14
Similarity score:	0.0223902

Alignment:
KMGAGAKMGAGAGAGAKM
---MKAGMVAGAKAGMK-

Original motif Consensus sequence: KMGAGAKMGAGAGAGAKM



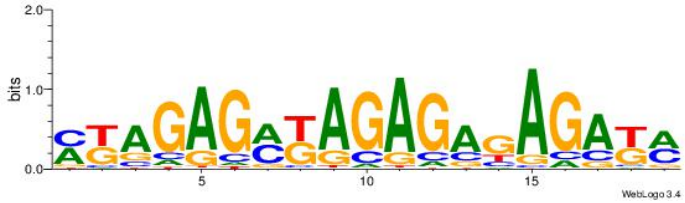
Reverse complement motif Consensus sequence: RRTCTCTCTCRRTCTCRR



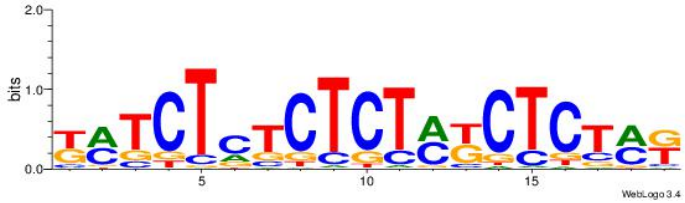
Dataset #:	1
Motif ID:	12
Motif name:	C012
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.0297307

Alignment:
MKAGAGMKAGAGAGAGAKM
MKAGMVAGAKAGMK-----

Original motif Consensus sequence: MKAGAGMKAGAGAGAGAKM



Reverse complement motif Consensus sequence: YRTCTCTCTCTRYCTCTRR

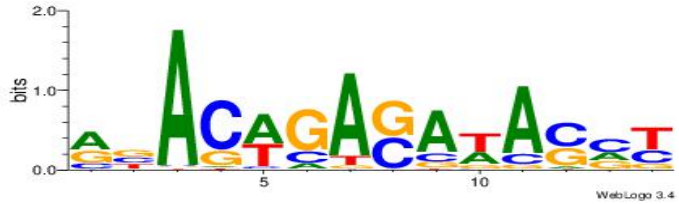


Dataset #:	1
Motif ID:	108
Motif name:	C108
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.031488

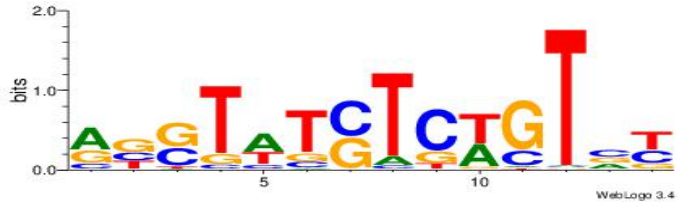
Alignment:

```
RBACWGASAWASVY
MKAGMVAGAKAGMK
```

Original motif Consensus sequence: RBACWGASAWASVY



Reverse complement motif Consensus sequence: MVSTWTSTCWGTB

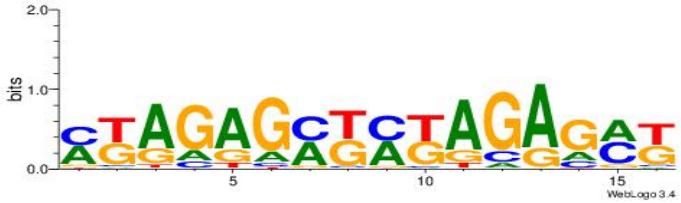


Dataset #:	1
Motif ID:	55
Motif name:	C055
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.0327219

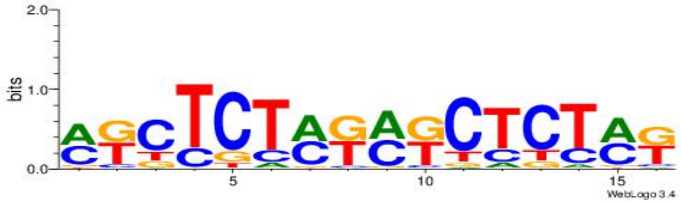
Alignment:

```
MKAGAGMKMKAGAGMK
MKAGMVAGAKAGMK--
```

Original motif Consensus sequence: MKAGAGMKMKAGAGMK



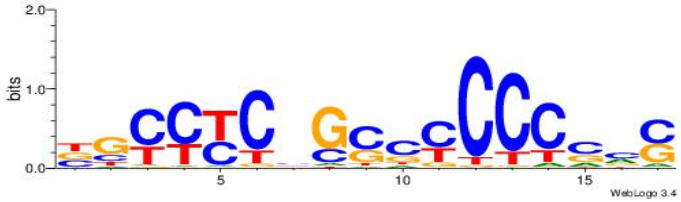
Reverse complement motif Consensus sequence: RYCTCTRRRRCTCTRR

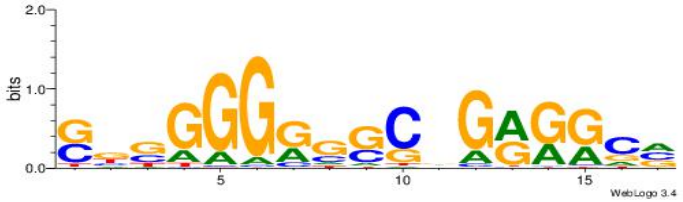


Dataset #: 1 Motif ID: 22 Motif name: C022

Original motif Consensus sequence: BGCCYCBGSCYCCCSVS

Reverse complement motif Consensus sequence: SVSGGGKGSCBGMGGCV





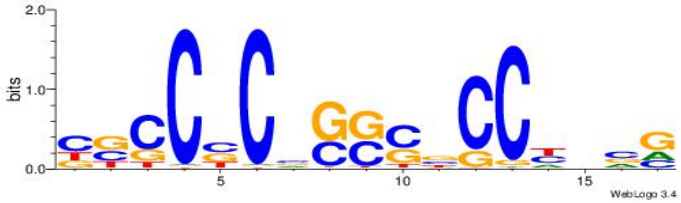
Best Matches for Motif ID 22 (Highest to Lowest)

Dataset #:	1
Motif ID:	140
Motif name:	C140
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.0048476

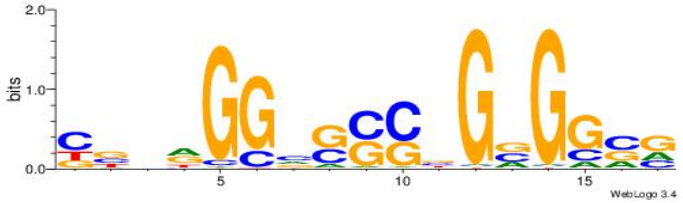
Alignment:

```
BSCCBCVSSSBCCYHVG
BGCCYCBGSCYCCCSVS
```

Original motif Consensus sequence: BSCCBCVSSSBCCYHVG



Reverse complement motif Consensus sequence: CVDMGGBSSSVGBGGSB

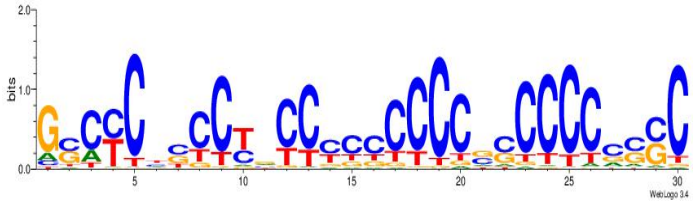


Dataset #:	1
Motif ID:	3
Motif name:	C003
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	17
Similarity score:	0.00796864

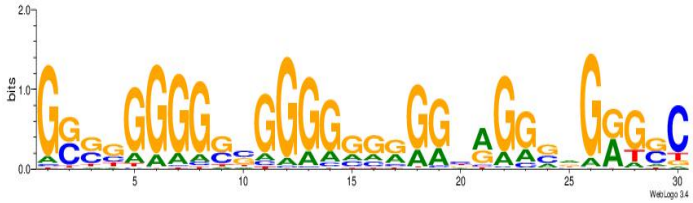
Alignment:

```
GSCYCHSCCYVCCYCCCCCCSSCCCCCSSC
------------BGCCYCBGSCYCCCSVS-
```

Original motif Consensus sequence:
GSCYCHSCCYVCCYCCCCCCSSCCCCCSSC



Reverse complement motif Consensus sequence:
GSSGGGGGSSGGGGGGKGGVMGGSHGKGSC

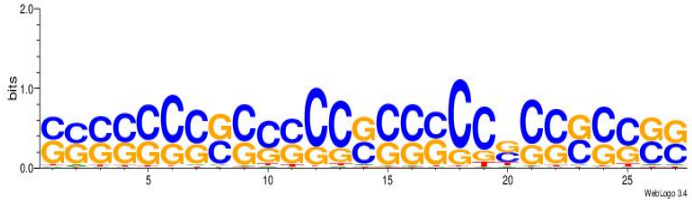


Dataset #:	1
Motif ID:	4
Motif name:	C004
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7

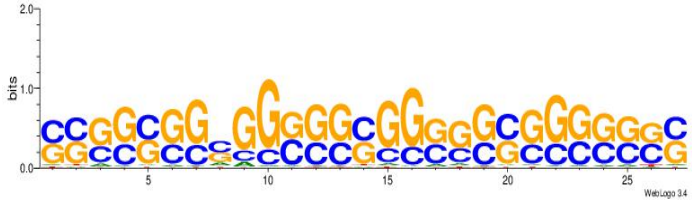
Number of overlap: 17
Similarity score: 0.0148301

Alignment:
SSSSSCSSSSSCCSSSSCCSCSSSSSS
------BGCCYCBGSCYCCCSVS----

Original motif Consensus sequence:
SSSSSCSSSSSCCSSSSCCSCSSSSSS



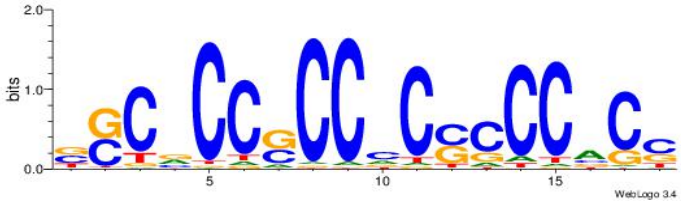
Reverse complement motif Consensus sequence:
SSSSSSGSGGSSSSGGSSSSSGSSSSS



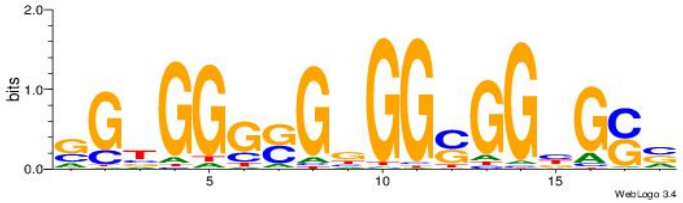
Dataset #: 1
Motif ID: 20
Motif name: C020
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 17
Similarity score: 0.0301912

Alignment:
BSCVCCSCCVCSCCCACS
BGCCYCBGSCYCCCSVS-

Original motif Consensus sequence: BSCVCCSCCVCSCCCACS



Reverse complement motif Consensus sequence: SGTGGGSGVGGSGGVGSB

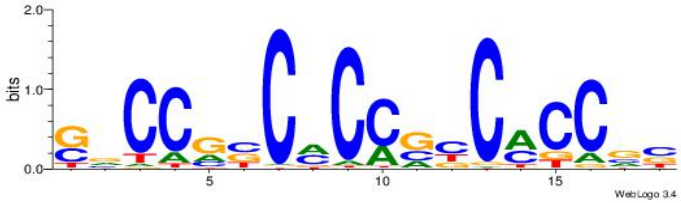


Dataset #:	1
Motif ID:	37
Motif name:	C037
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.0352503

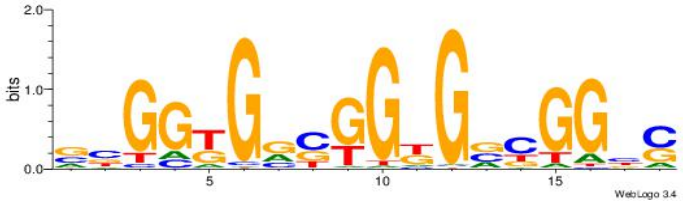
Alignment:

```
SVCCGBCMCCSYCMCCVB
-BGCCYCBGSCYCCCSVS
```

Original motif Consensus sequence: SVCCGBCMCCSYCMCCVB

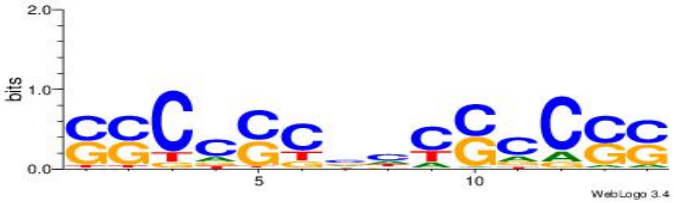


Reverse complement motif Consensus sequence: BVGGYGKSGGYGBCGGVS

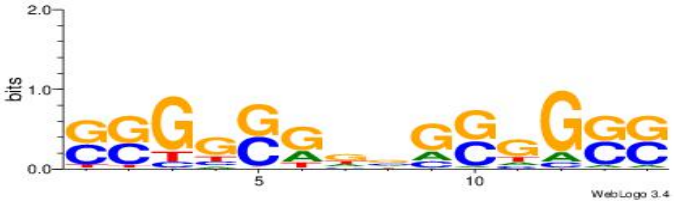


Dataset #: 1 Motif ID: 23 Motif name: C023

Original motif Consensus sequence: SSCCSCBHCSCCSS



Reverse complement motif Consensus sequence: SSGGSGDBGSGGS



Best Matches for Motif ID 23 (Highest to Lowest)

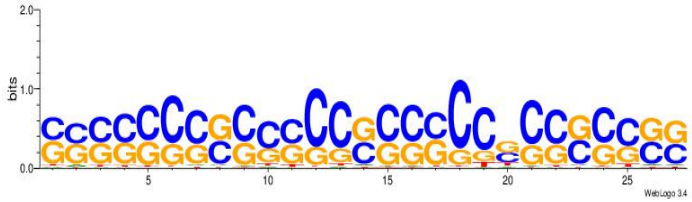
Dataset #:	1
Motif ID:	4
Motif name:	C004
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.00461109

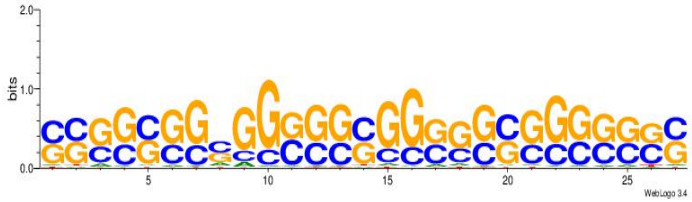
Alignment:

```
SSSSSSGSGGSSSSGGSSSSSGSSSSS
------------SSGGSGDBGSGGSS-
```

Original motif Consensus sequence:
SSSSSCSSSSSCCSSSSCCSCSSSSSS

Reverse complement motif Consensus sequence:
SSSSSSGSGGSSSSGGSSSSSGSSSSS



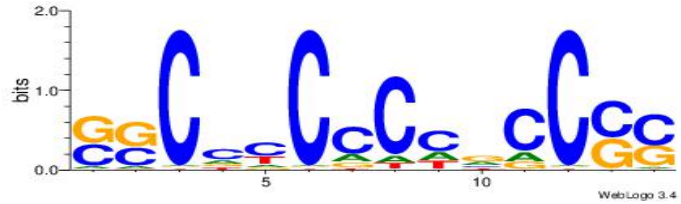


Dataset #:	1
Motif ID:	104
Motif name:	C104
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.00651203

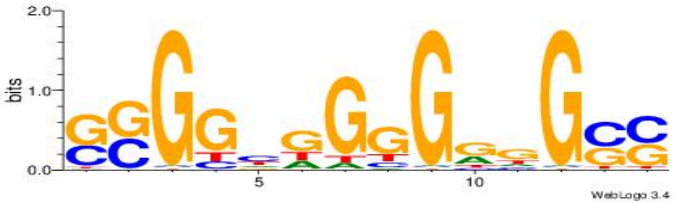
Alignment:

```
SSGGHGGGGKGGSS
SSGGSGDBGSGGSS
```

Original motif Consensus sequence: SSCCYCCCCDCCSS



Reverse complement motif Consensus sequence: SSGGHGGGGKGG



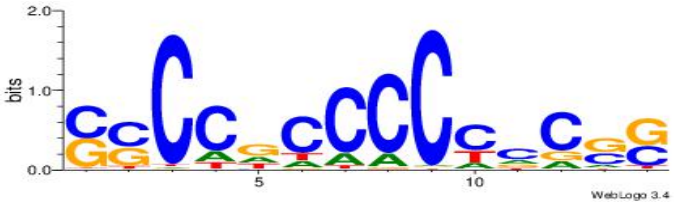
Dataset #:	1
Motif ID:	54

Motif name:	C054
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.0125092

Alignment:

```
SSCCDCCCCCCCSS
SSCCSCBHCSCCSS
```

Original motif Consensus sequence: SSCCDCCCCCCCSS

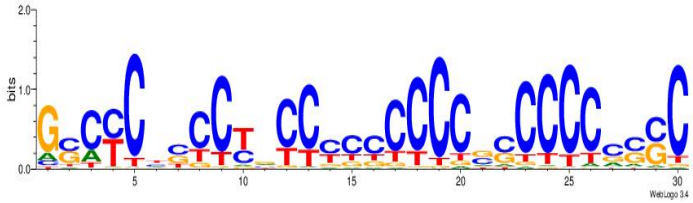


Reverse complement motif Consensus sequence: SSGGGGGGGHGG

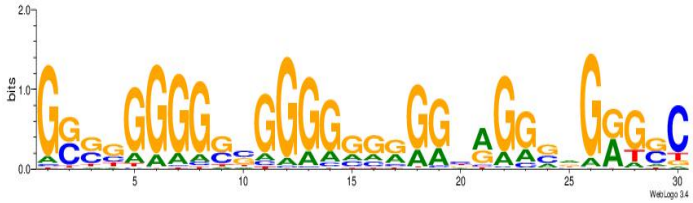
Dataset #:	1
Motif ID:	3
Motif name:	C003
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	15
Number of overlap:	14
Similarity score:	0.0162482

Alignment:
GSCYCHSCCYVCCYCCCCCCSSCCCCCSSC
----------SSCCSCBHCSCCSS--

Original motif Consensus sequence:
GSCYCHSCCYVCCYCCCCCCSSCCCCCSSC



Reverse complement motif Consensus sequence:
GSSGGGGGSSGGGGGGKGGVMGGSHGKGSC

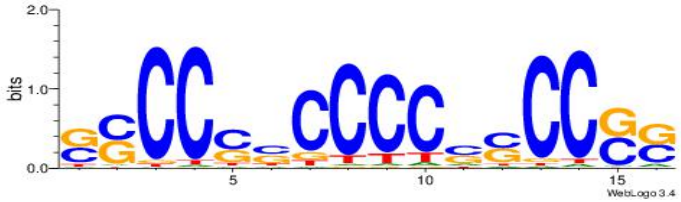


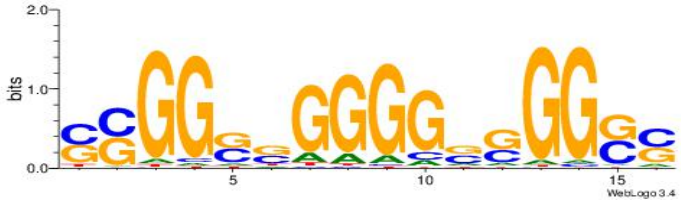
Dataset #:	1
Motif ID:	8
Motif name:	C008
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.0169024

Alignment:
SSGGSSGGGGSSGGSS
-SSGGSGDBGSGGSS-

Original motif Consensus sequence: SSCCSSCCCCSSCCSS

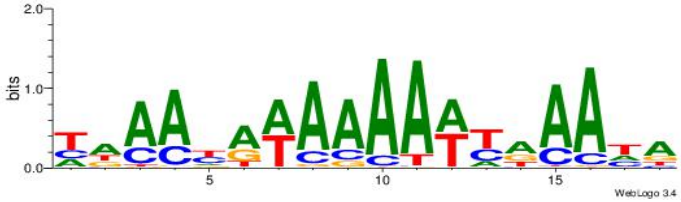
Reverse complement motif Consensus sequence:
SSGGSSGGGGSSGGSS



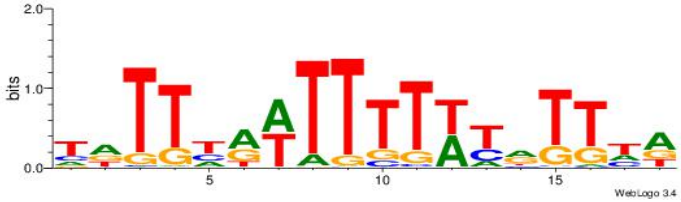


Dataset #: 1 **Motif ID: 24** **Motif name: C024**

Original motif Consensus sequence: TDAAYRWAAAAWYDAAHA



Reverse complement motif Consensus sequence: THTTDMWTTTTWKMTTDA



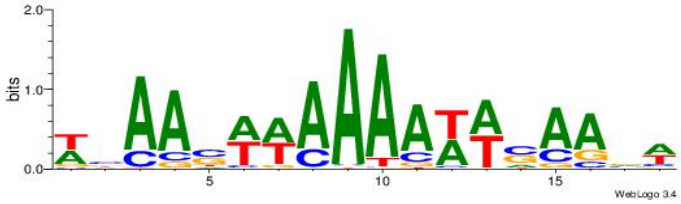
Best Matches for Motif ID 24 (Highest to Lowest)

Dataset #:	1
Motif ID:	97
Motif name:	C097
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.0138646

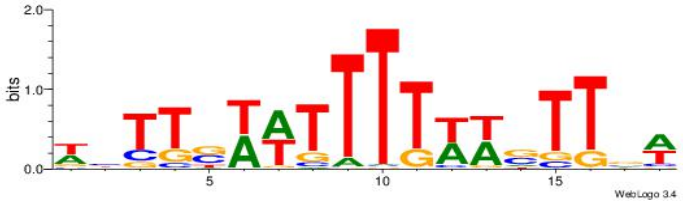
Alignment:

WVTTSWWTTTTWWSTTBW
THTTDMWTTTTWKMTTDA

Original motif Consensus sequence: WBAASWWAAAAWWSAAVW



Reverse complement motif Consensus sequence: WVTTSWWTTTTWWSTTBW

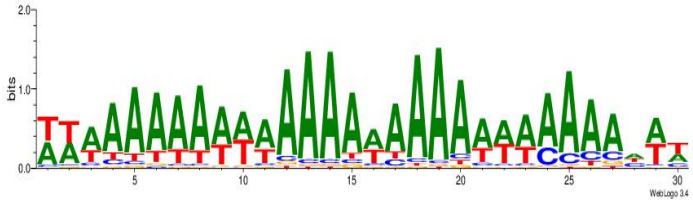


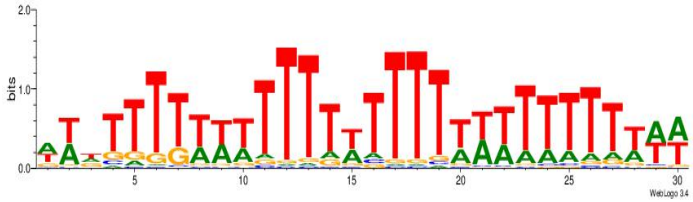
Dataset #:	1
Motif ID:	1
Motif name:	C001
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	10
Number of overlap:	18
Similarity score:	0.0165298

Alignment:
WWHTTTTWWTTTTTWTTTTTWWTTTTTWWW
---THTTDMWTTTTWKMTTDA---------

Original motif Consensus sequence:
WWWAAAAAWWAAAAAWAAAAAWWAAAAHWW

Reverse complement motif Consensus sequence:
WWHTTTTWWTTTTTWTTTTTWWTTTTTWWW



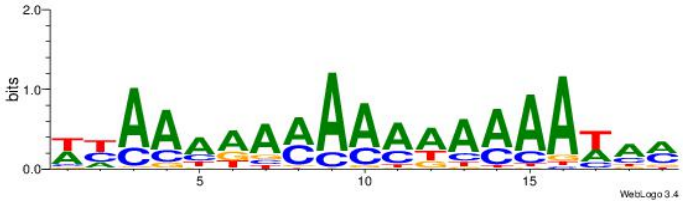


Dataset #:	1
Motif ID:	30
Motif name:	C030
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.0167795

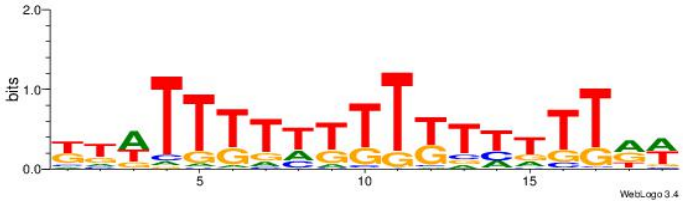
Alignment:

```
WYAAAAAMAAAAAAAAWAM
TDAAYRWAAAAWYDAAHA-
```

Original motif Consensus sequence: WYAAAAAMAAAAAAAAWAM



Reverse complement motif Consensus sequence: YTWTTTTTTTTYTTTTTMW



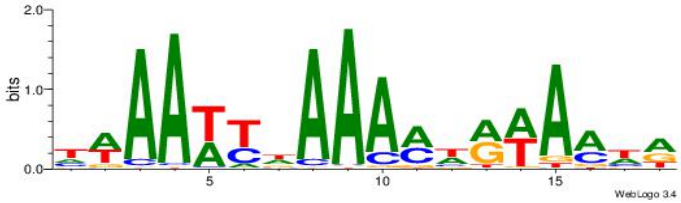
Dataset #:	1

Motif ID:	32
Motif name:	C032
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.0276297

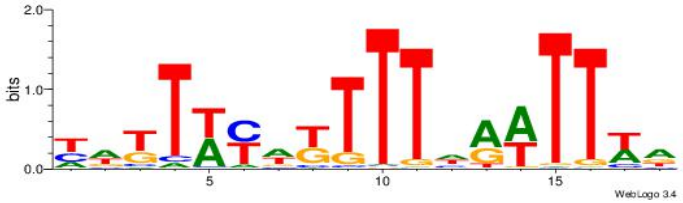
Alignment:

```
HWAAWYDAAAMWRWAMWR
TDAAYRWAAAAWYDAAHA
```

Original motif Consensus sequence: HWAAWYDAAAMWRWAMWR



Reverse complement motif Consensus sequence: KWYTWKWYTTTDMWTTWH

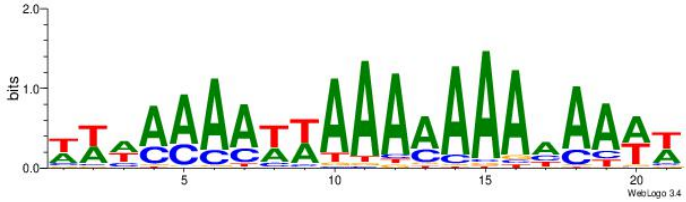


Dataset #:	1
Motif ID:	10
Motif name:	C010
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	18

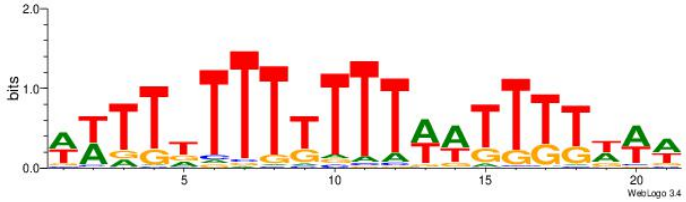
Similarity score: 0.0288095

Alignment:
WWWAAAAWWAAAAAAAAAAWW
---TDAAYRWAAAAWYDAAHA

Original motif Consensus sequence: WWWAAAAWWAAAAAAAAAAWW



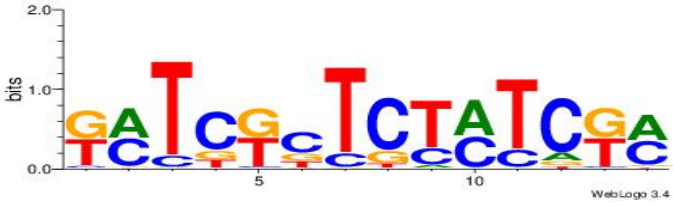
Reverse complement motif Consensus sequence: WWTTTTTTTTTTWWTTTTWWW



Dataset #: 1 Motif ID: 25 Motif name: C025

Original motif Consensus sequence: KMGAKAGAGMGAKM

Reverse complement motif Consensus sequence: RRTCRCTCTRTCRR



Best Matches for Motif ID 25 (Highest to Lowest)

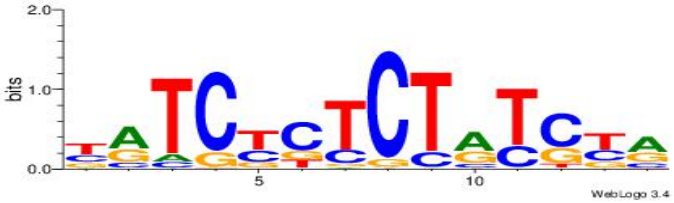
Dataset #:	1
Motif ID:	78
Motif name:	C078
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif

Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.00248665

Alignment:
YRGAYAGAGRGAYR
KMGAKAGAGMGAKM

Original motif Consensus sequence: YRGAYAGAGRGAYR

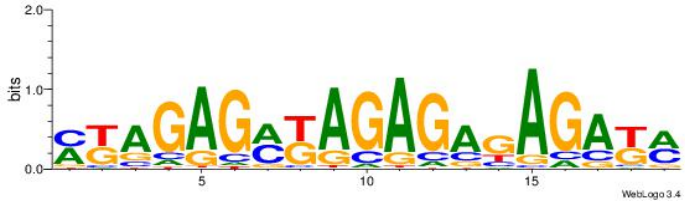
Reverse complement motif Consensus sequence: KMTCKCTCTMTCK



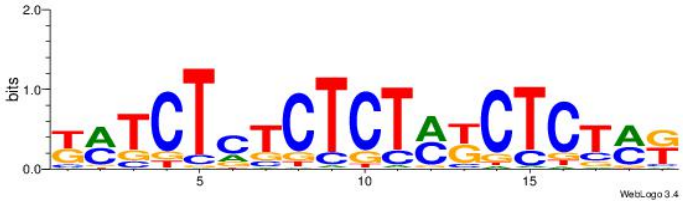
Dataset #:	1
Motif ID:	12
Motif name:	C012
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.00375955

Alignment:
MKAGAGMKAGAGAGAGAKM
-----KMGAKAGAGMGAKM

Original motif Consensus sequence: MKAGAGMKAGAGAGAGAKM



Reverse complement motif Consensus sequence: YRTCTCTCTCTRYCTCTRR

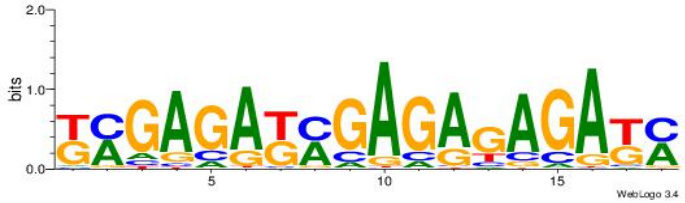


Dataset #:	1
Motif ID:	11
Motif name:	C011
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	14
Similarity score:	0.00885823

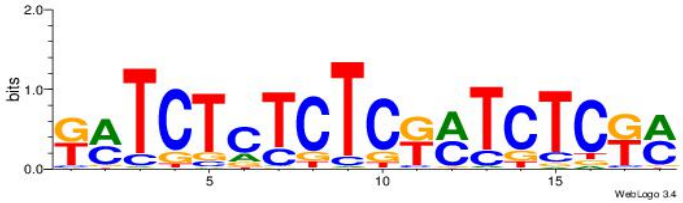
Alignment:

```
KMGAGAKMGAGAGAGAKM
KMGAKAGAGMGAKM----
```

Original motif Consensus sequence: KMGAGAKMGAGAGAGAKM



Reverse complement motif Consensus sequence: RRTCTCTCTCRRTCTCRR

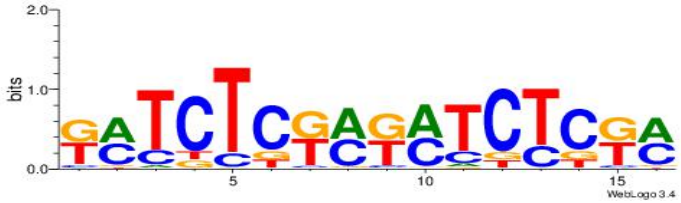


Dataset #:	1
Motif ID:	26
Motif name:	C026
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.0116747

Alignment:
KMGAGAKMKMGAGAKM
KMGAKAGAGMGAKM--

Original motif Consensus sequence: KMGAGAKMKMGAGAKM

Reverse complement motif Consensus sequence: RRTCTCRRRRTCTCRR



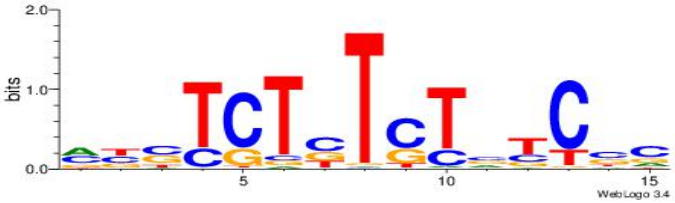
Dataset #:	1
Motif ID:	70
Motif name:	C070
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

Number of overlap: 14
Similarity score: 0.0139232

Alignment:
GVGABAGAVAGASVK
KMGAKAGAGMGAKM-

Original motif Consensus sequence: GVGABAGAVAGASVK

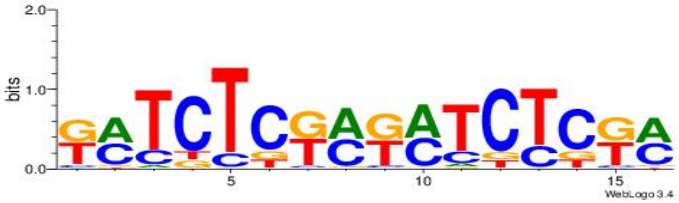
Reverse complement motif Consensus sequence: RBSTCTVTCTBTCV



Dataset #: 1 Motif ID: 26 Motif name: C026

Original motif Consensus sequence: KMGAGAKMKMGAGAKM

Reverse complement motif Consensus sequence: RRTCTCRRRRTCTCRR



Best Matches for Motif ID 26 (Highest to Lowest)

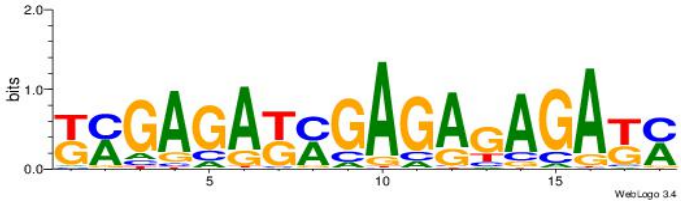
Dataset #: 1
Motif ID: 11
Motif name: C011
Matching format of first motif: Original Motif

Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.0355709

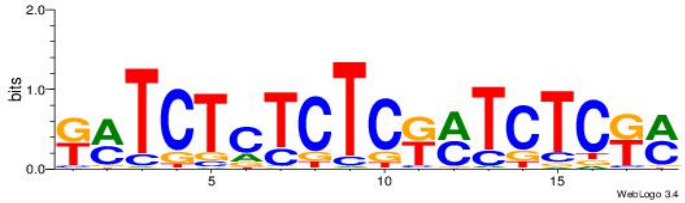
Alignment:

```
KMGAGAKMGAGAGAGAKM
KMGAGAKMKMGAGAKM--
```

Original motif Consensus sequence: KMGAGAKMGAGAGAGAKM



Reverse complement motif Consensus sequence: RRTCTCTCTCRRTCTCRR

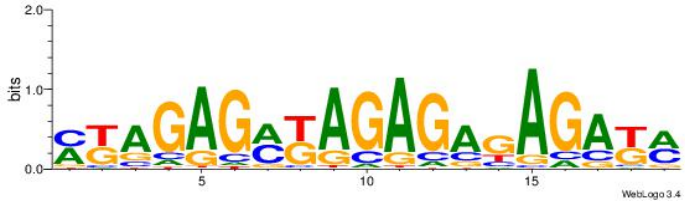


Dataset #:	1
Motif ID:	12
Motif name:	C012
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	16
Similarity score:	0.0522586

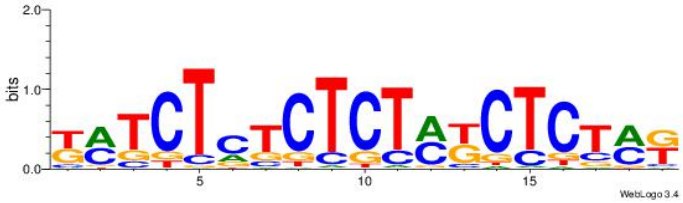
Alignment:

MKAGAGMKAGAGAGAGAKM
-KMGAGAKMKMGAGAKM--

Original motif Consensus sequence: MKAGAGMKAGAGAGAGAKM



Reverse complement motif Consensus sequence: YRTCTCTCTCTRYCTCTRR

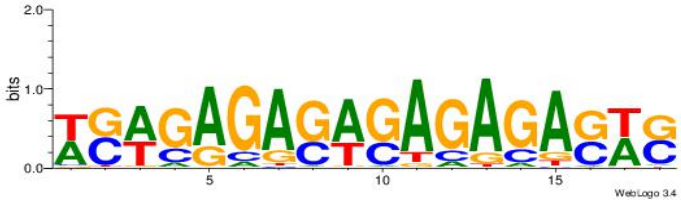


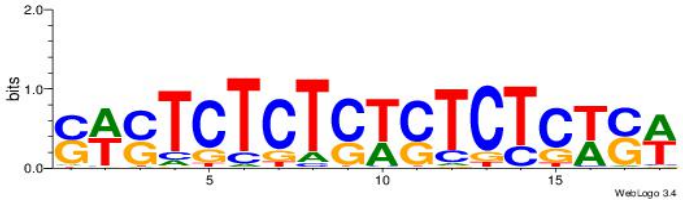
Dataset #:	1
Motif ID:	17
Motif name:	C017
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	16
Similarity score:	0.0591037

Alignment:
WSWGAGASWSAGAGASWS
-KMGAGAKMKMGAGAKM-

Original motif Consensus sequence: WSWGAGASWSAGAGASWS

Reverse complement motif Consensus sequence: SWSTCTCTSWSTCTCWSW



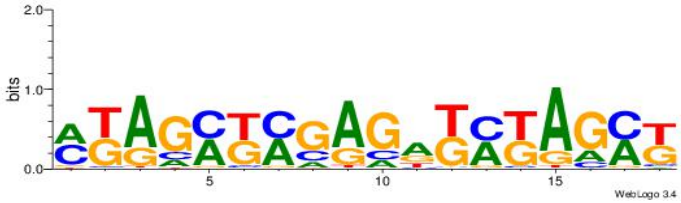


Dataset #:	1
Motif ID:	36
Motif name:	C036
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	16
Similarity score:	0.0805523

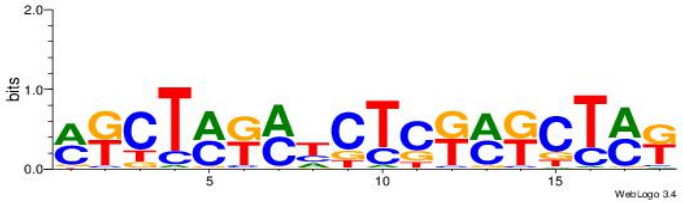
Alignment:

```
MKAGMKMGAGAKMKAGMK
-RRTCTCRRRRTCTCRR-
```

Original motif Consensus sequence: MKAGMKMGAGAKMKAGMK



Reverse complement motif Consensus sequence: RRCTRRRTCTCRRRCTRY



Dataset #: 1

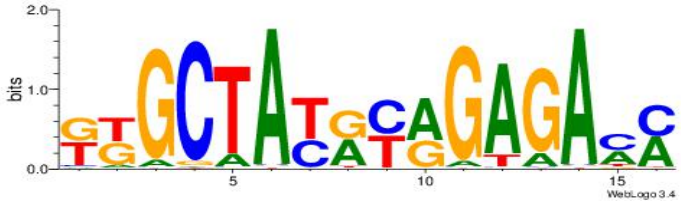
Motif ID:	129
Motif name:	C129
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	16
Similarity score:	0.0816986

Alignment:

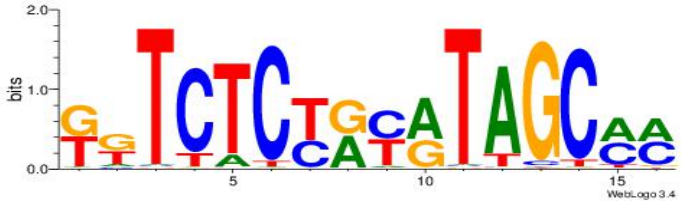
RRTCTCKKMMTAGCRY

RRTCTCRRRRTCTCRR

Original motif Consensus sequence: KKGCTAYRYRGAGAMM

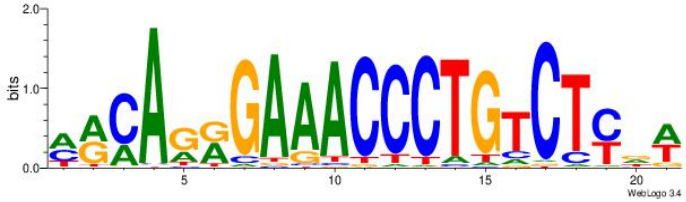


Reverse complement motif Consensus sequence: RRTCTCKKMMTAGCRY

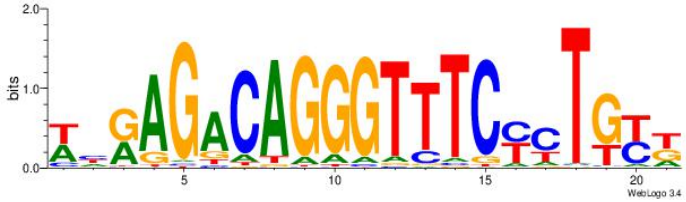


Dataset #: 1 Motif ID: 27 Motif name: C027

Original motif Consensus sequence: MRCAGRGAAACCCTGTCTYDW



Reverse complement motif Consensus sequence: WHKAGACAGGGTTTCMCTGKY



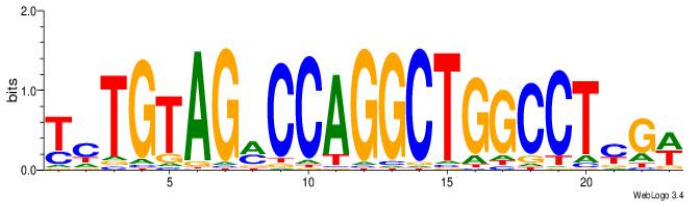
Best Matches for Motif ID 27 (Highest to Lowest)

Dataset #:	1
Motif ID:	5
Motif name:	C005
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	21
Similarity score:	0.0518564

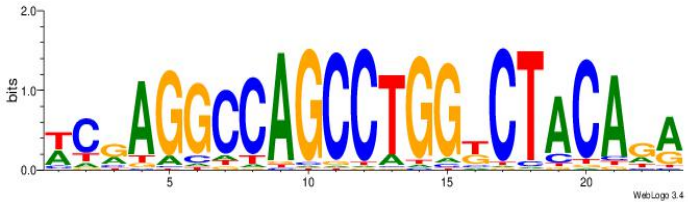
Alignment:

```
WCKAGGCCAGCCTGGYCTACAGA
--MRCAGRGAAACCCTGTCTYDW
```

Original motif Consensus sequence: TCTGTAGMCCAGGCTGGCCTYGW



Reverse complement motif Consensus sequence: WCKAGGCCAGCCTGGYCTACAGA



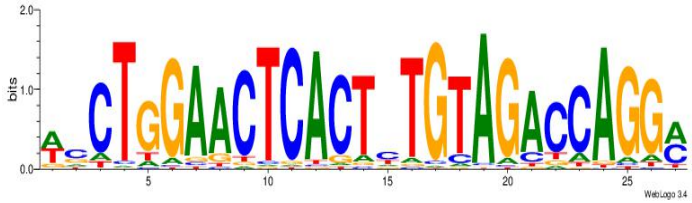
Dataset #:	1
Motif ID:	13
Motif name:	C013
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement

Direction:	Backward
Position number:	1
Number of overlap:	21
Similarity score:	0.0563181

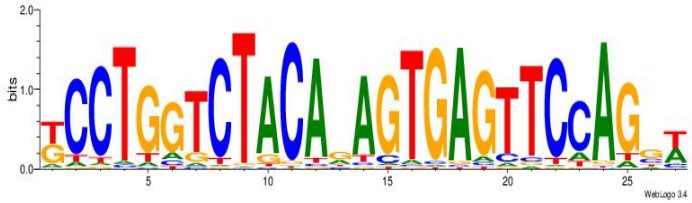
Alignment:

```
YCCTGGTCTACADAGTGAGTTCCAGVW
------WHKAGACAGGGTTTCMCTGKY
```

Original motif Consensus sequence:
WVCTGGAACTCACTHTGTAGACCAGGM



Reverse complement motif Consensus sequence:
YCCTGGTCTACADAGTGAGTTCCAGVW

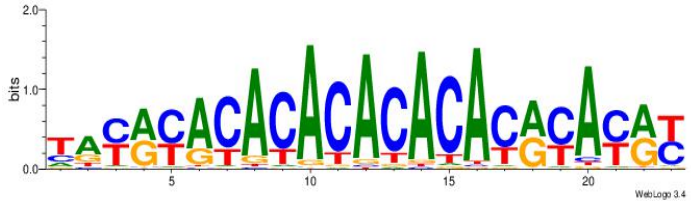


Dataset #:	1
Motif ID:	2
Motif name:	C002
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	21
Similarity score:	0.0592534

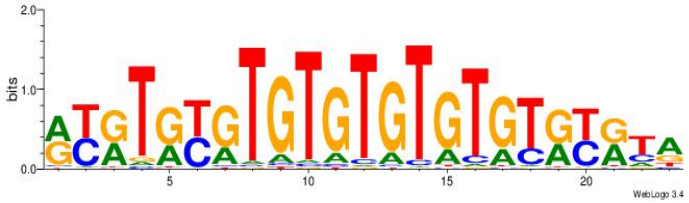
Alignment:

```
TAYRYACACACACACACRYAYRY
--MRCAGRGAAACCCTGTCTYDW
```

Original motif Consensus sequence: TAYRYACACACACACACRYAYRY



Reverse complement motif Consensus sequence: MKKTKKGTGTGTGTGTGTKKKTA

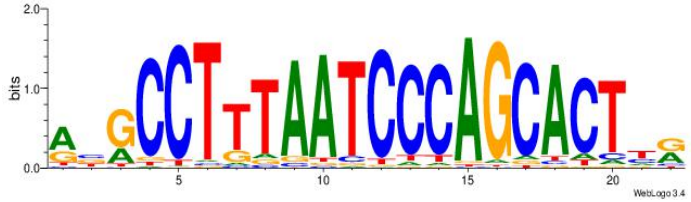


Dataset #:	1
Motif ID:	9
Motif name:	C009
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	21
Similarity score:	0.0624213

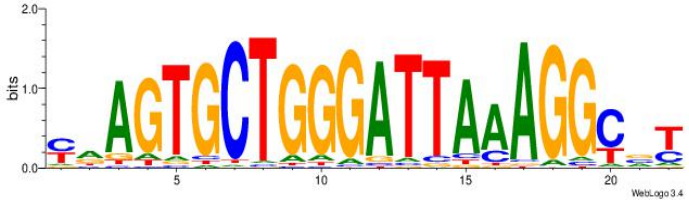
Alignment:

```
ABGCCTTTAATCCCAGCACTHR
-MRCAGRGAAACCCTGTCTYDW
```

Original motif Consensus sequence: ABGCCTTTAATCCCAGCACTHR



Reverse complement motif Consensus sequence: MHAGTGCTGGGATTAAAGGCBT

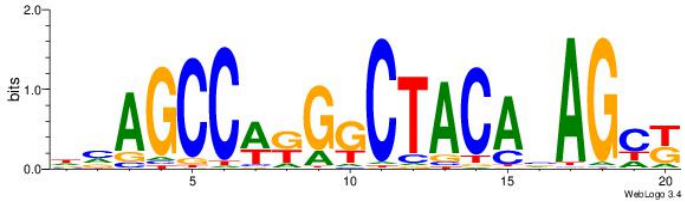


Dataset #:	1
Motif ID:	15
Motif name:	C015
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	20
Similarity score:	0.542884

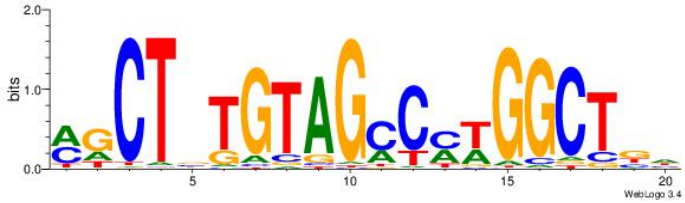
Alignment:

```
-RGCTVTGTAGCCYWGGCTVD
MRCAGRGAAACCCTGTCTYDW
```

Original motif Consensus sequence: DVAGCCWKGGCTACAVAGCK



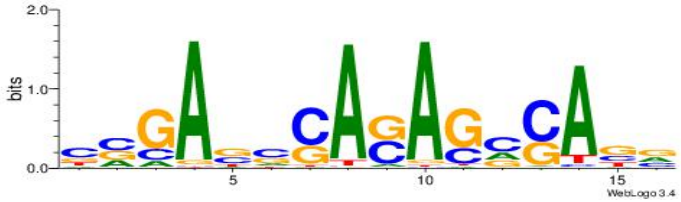
Reverse complement motif Consensus sequence: RGCTVTGTAGCCYWGGCTVD

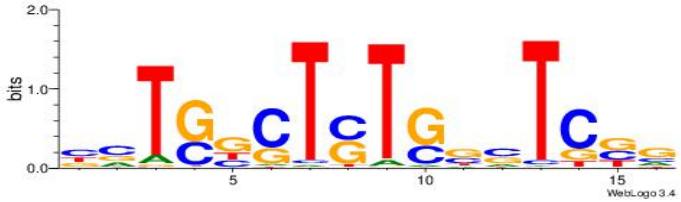


Dataset #: 1 Motif ID: 28 Motif name: C028

Original motif Consensus sequence: BVGASSCASAGVSABV

Reverse complement motif Consensus sequence: VBTSVCTSTGSSTCVB





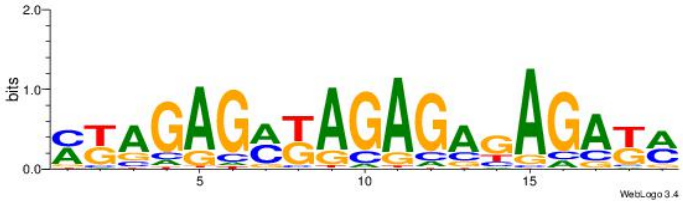
Best Matches for Motif ID 28 (Highest to Lowest)

Dataset #:	1
Motif ID:	12
Motif name:	C012
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	16
Similarity score:	0.0221234

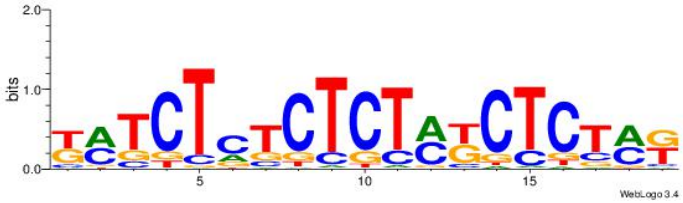
Alignment:

```
MKAGAGMKAGAGAGAGAKM
-BVGASSCASAGVSABV--
```

Original motif Consensus sequence: MKAGAGMKAGAGAGAGAKM



Reverse complement motif Consensus sequence: YRTCTCTCTCTRYCTCTRR

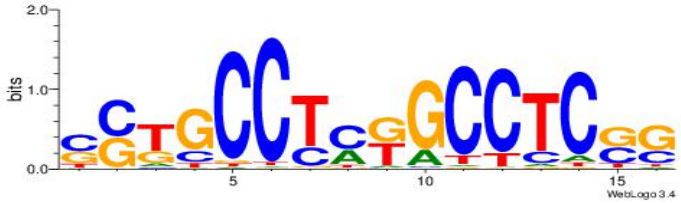


Dataset #:	1
Motif ID:	41
Motif name:	C041
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	16
Similarity score:	0.0252792

Alignment:
CSGAGGCMKAGGCASS
BVGASSCASAGVSABV

Original motif Consensus sequence: CSGAGGCMKAGGCASS

Reverse complement motif Consensus sequence: SSTGCCTYRGCCTCSG

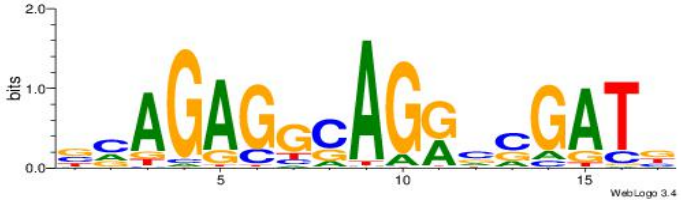


Dataset #:	1
Motif ID:	44
Motif name:	C044
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2

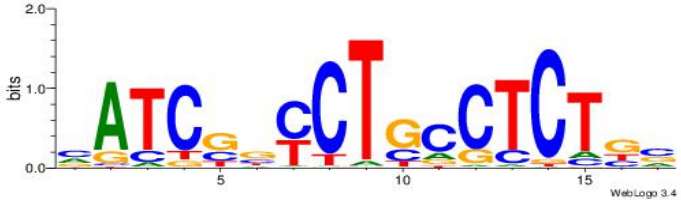
Number of overlap: 16
Similarity score: 0.0258827

Alignment:
BVAGAGGCAGRVSGATB
-BVGASSCASAGVSABV

Original motif Consensus sequence: BVAGAGGCAGRVSGATB



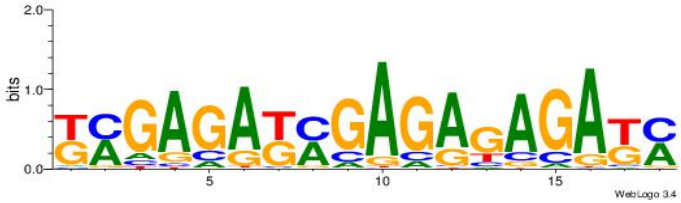
Reverse complement motif Consensus sequence: BATCSVMCTGCCTCTVB



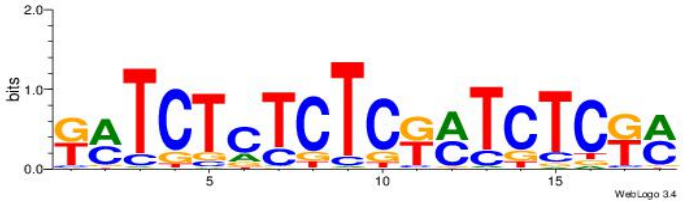
Dataset #: 1
Motif ID: 11
Motif name: C011
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 16
Similarity score: 0.0260543

Alignment:
KMGAGAKMGAGAGAGAKM
--BVGASSCASAGVSABV

Original motif Consensus sequence: KMGAGAKMGAGAGAGAKM



Reverse complement motif Consensus sequence: RRTCTCTCTCRRTCTCRR

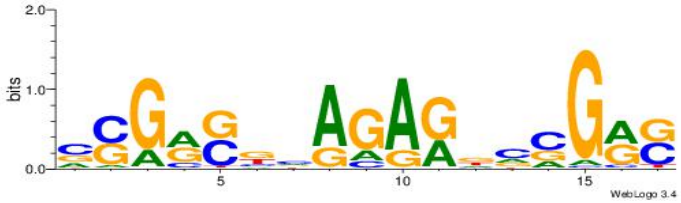


Dataset #:	1
Motif ID:	85
Motif name:	C085
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	16
Similarity score:	0.0271866

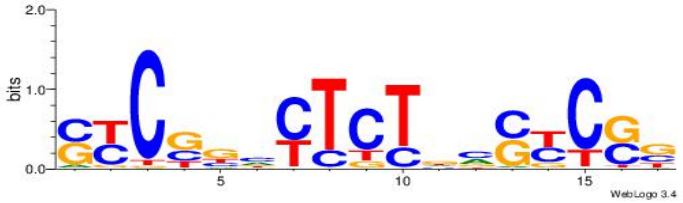
Alignment:

```
VSGRSBHAGARDVSGRS
BVGASSCASAGVSABV-
```

Original motif Consensus sequence: VSGRSBHAGARDVSGRS

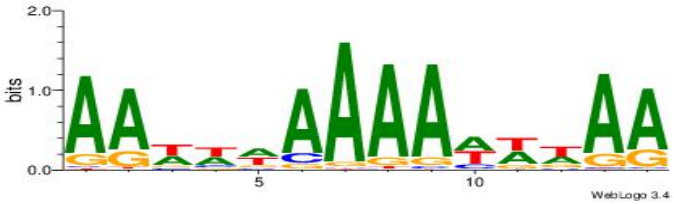


Reverse complement motif Consensus sequence: SKCSVHMTCTDBSKCSV

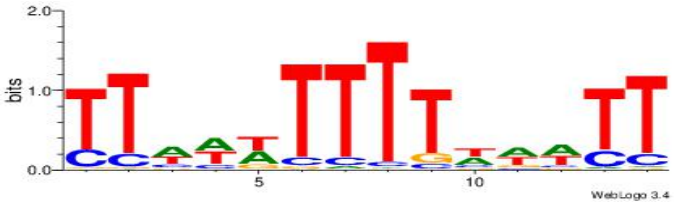


Dataset #: 1 **Motif ID: 29** **Motif name: C029**

Original motif Consensus sequence: AAWWWAAAAWWWAA



Reverse complement motif Consensus sequence: TTWWWTTTTWWWTT



Best Matches for Motif ID 29 (Highest to Lowest)

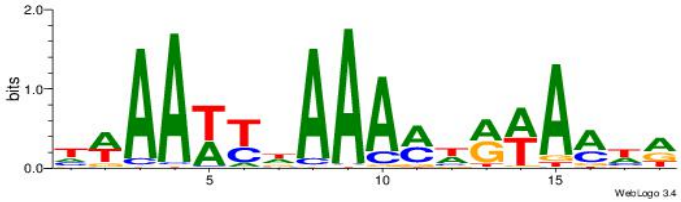
Dataset #:	1
Motif ID:	32
Motif name:	C032
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.0196644

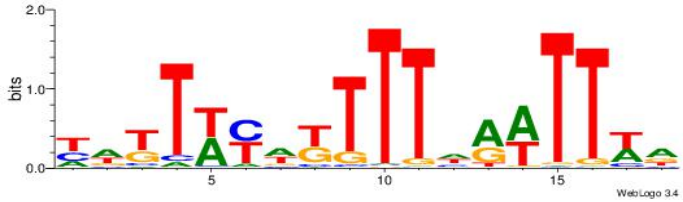
Alignment:

```
KWYTWKWYTTTDMWTTWH
--TTWWWTTTTWWWTT--
```

Original motif Consensus sequence: HWAAWYDAAAMWRWAMWR

Reverse complement motif Consensus sequence: KWYTWKWYTTTDMWTTWH



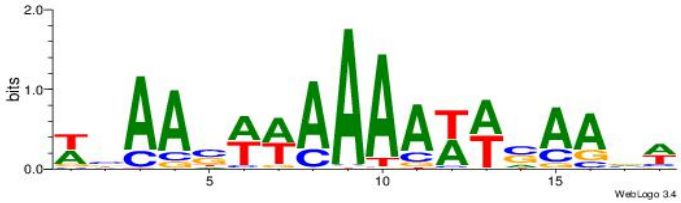


Dataset #:	1
Motif ID:	97
Motif name:	C097
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.0201332

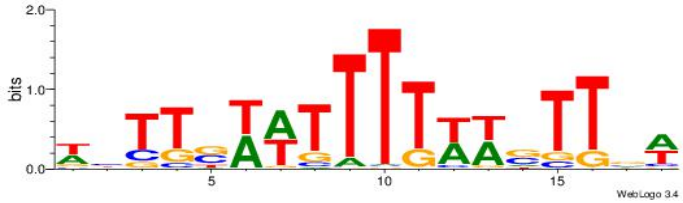
Alignment:

```
WVTTSWWTTTTWWSTTBW
--TTWWWTTTTWWWTT--
```

Original motif Consensus sequence: WBAASWWAAAAWWSAAVW



Reverse complement motif Consensus sequence: WVTTSWWTTTTWWSTTBW



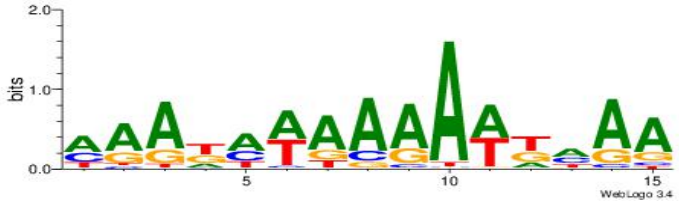
Dataset #: 1

Motif ID:	63
Motif name:	C063
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.0201809

Alignment:

```
TTHRWTTTTWYRTTY
TTWWWTTTTWWWTT-
```

Original motif Consensus sequence: MAAKMWAAAAWKHAA

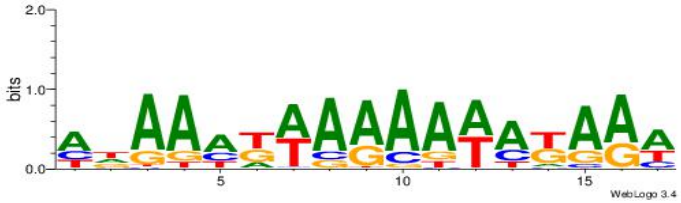


Reverse complement motif Consensus sequence: TTHRWTTTTWYRT

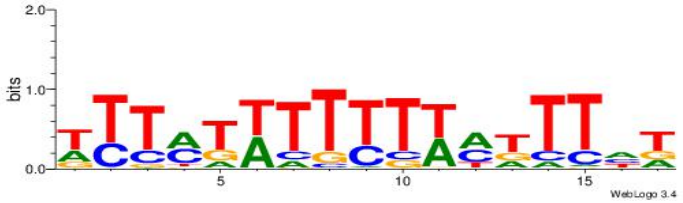
Dataset #:	1
Motif ID:	79
Motif name:	C079
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	14
Similarity score:	0.020478

Alignment:
WKTRTWTTTTWRTTTDT
-TTWWWTTTTWWWTT--

Original motif Consensus sequence: ADAAAKWAAAAWAKARW



Reverse complement motif Consensus sequence:
WKTRTWTTTTWRTTTDT

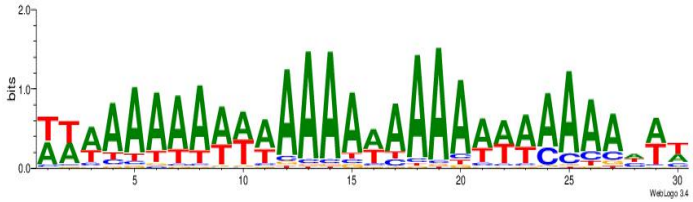


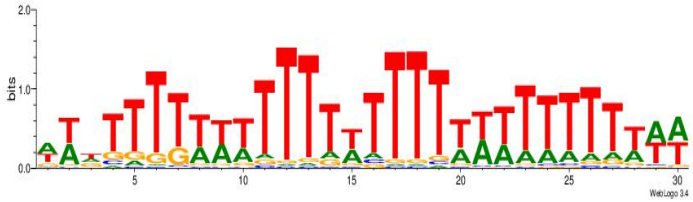
Dataset #:	1
Motif ID:	1
Motif name:	C001
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	14
Similarity score:	0.0204858

Alignment:
WWWAAAAAWWAAAAAWAAAAAWWAAAAHWW
----------AAWWWAAAAWWWAA-----

Original motif Consensus sequence:
WWWAAAAAWWAAAAAWAAAAAWWAAAAHWW

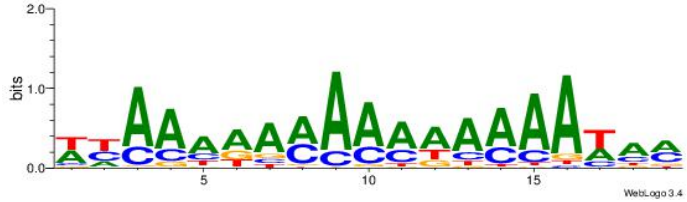
Reverse complement motif Consensus sequence:
WWHTTTTWWTTTTTWTTTTTWWTTTTTWWW



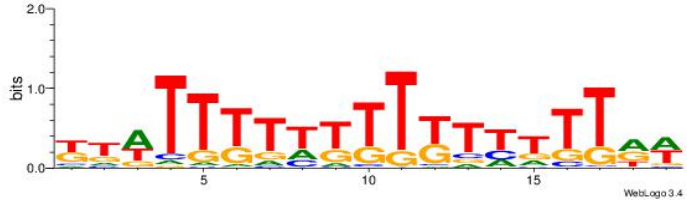


Dataset #: 1 **Motif ID: 30** **Motif name: C030**

Original motif Consensus sequence: WYAAAAAMAAAAAAAAWAM



Reverse complement motif Consensus sequence: YTWTTTTTTTTYTTTTTMW



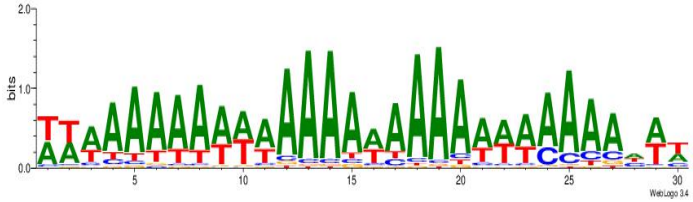
Best Matches for Motif ID 30 (Highest to Lowest)

Dataset #:	1
Motif ID:	1
Motif name:	C001
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	10
Number of overlap:	19
Similarity score:	0.0117121

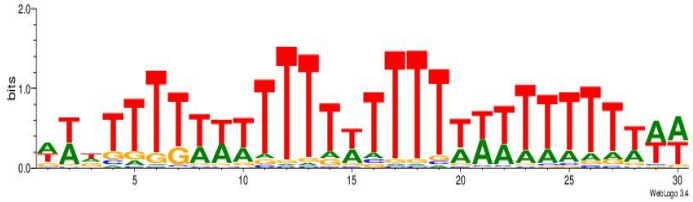
Alignment:

```
WWWAAAAAWWAAAAAWAAAAAWWAAAAHWW
---------WYAAAAAMAAAAAAAAWAM--
```

Original motif Consensus sequence:
WWWAAAAAWWAAAAAWAAAAAWWAAAAHWW



Reverse complement motif Consensus sequence:
WWHTTTTWWTTTTTWTTTTTWWTTTTTWWW



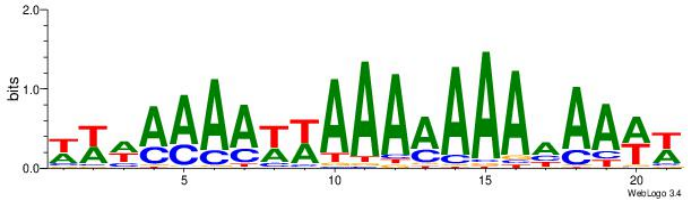
Dataset #:	1
Motif ID:	10
Motif name:	C010
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	19
Similarity score:	0.0158814

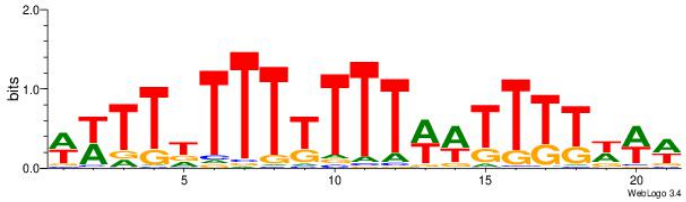
Alignment:

```
WWTTTTTTTTTTWWTTTTWWW
--YTWTTTTTTTTYTTTTTMW
```

Original motif Consensus sequence: WWWAAAAWWAAAAAAAAAWW

Reverse complement motif Consensus sequence:
WWTTTTTTTTTTWWTTTTWWW

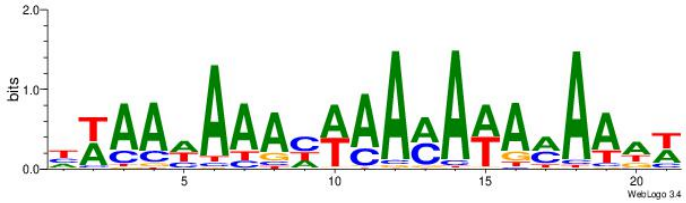




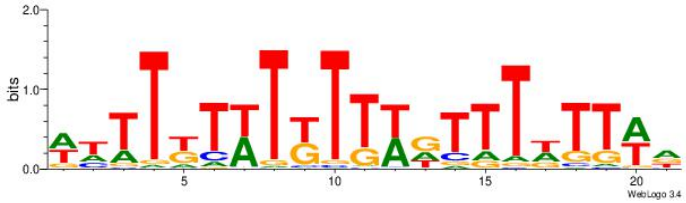
Dataset #: 1
Motif ID: 16
Motif name: C016
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 19
Similarity score: 0.0219024

Alignment:
HWAAWAAAHWAAMAWAMAAWW
WYAAAAAMAAAAAAAAWAM--

Original motif Consensus sequence: HWAAWAAAHWAAMAWAMAAWW



Reverse complement motif Consensus sequence: WWTTYTWTYTTWDTTTWTTWH



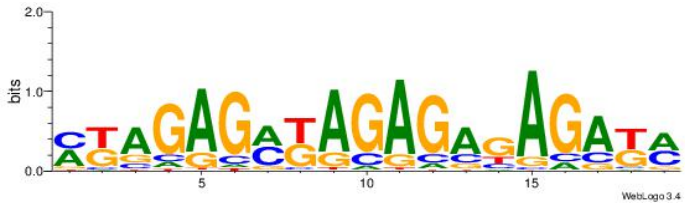
Dataset #: 1

Motif ID:	12
Motif name:	C012
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	19
Similarity score:	0.0679227

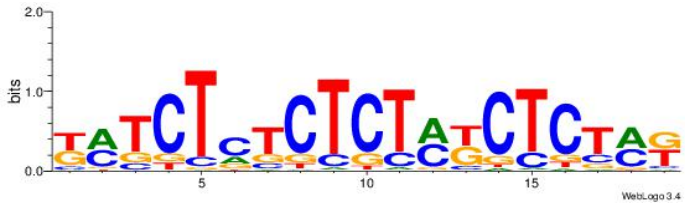
Alignment:

```
YRTCTCTCTCTRYCTCTRR
YTWTTTTTTTTYTTTTTMW
```

Original motif Consensus sequence: MKAGAGMKAGAGAGAGAKM



Reverse complement motif Consensus sequence: YRTCTCTCTCTRYCTCTRR

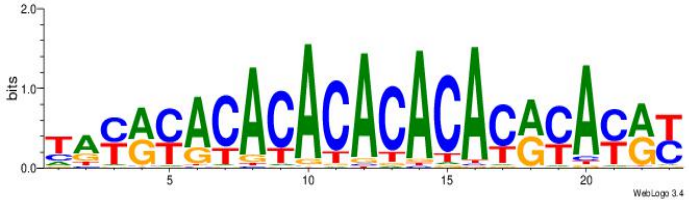


Dataset #:	1
Motif ID:	2
Motif name:	C002
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	19

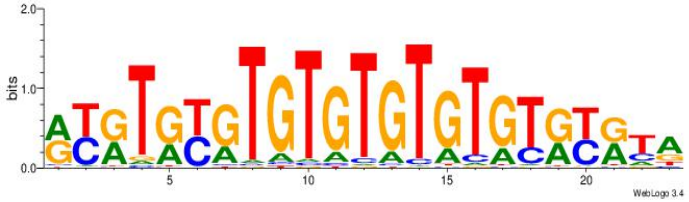
Similarity score: 0.0690814

Alignment:
TAYRYACACACACACACRYAYRY
WYAAAAAMAAAAAAAAWAM----

Original motif Consensus sequence: TAYRYACACACACACACRYAYRY

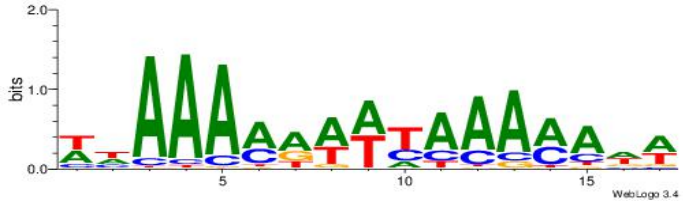


Reverse complement motif Consensus sequence: MKKTKKGTGTGTGTGTGTKKKTA

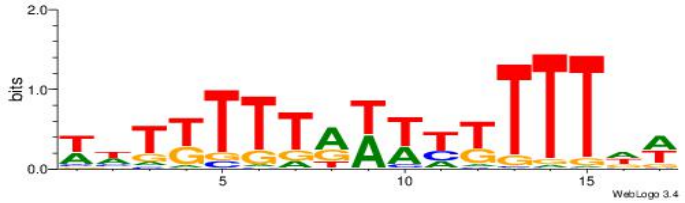


Dataset #: 1 Motif ID: 31 Motif name: C031

Original motif Consensus sequence: WHAAAMRWWYAAAMAWW



Reverse complement motif Consensus sequence: WWTYTTTMWWKYTTTHW



Best Matches for Motif ID 31 (Highest to Lowest)

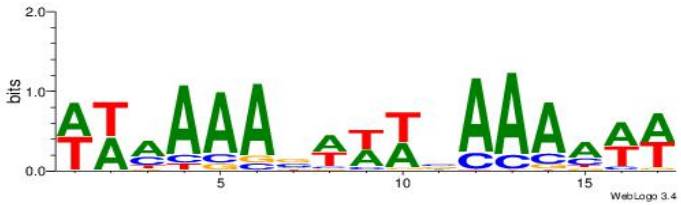
Dataset #:	1
Motif ID:	139
Motif name:	C139
Matching format of first motif:	Original Motif

Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.0108942

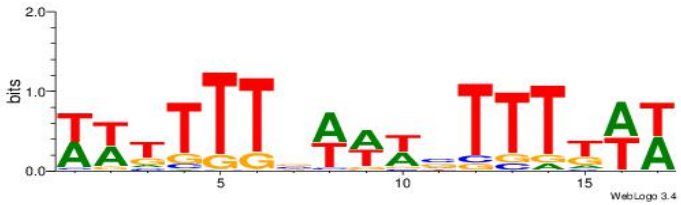
Alignment:

```
WWMAAABWWWVAAAAWW
WHAAAMRWWYAAAMAWW
```

Original motif Consensus sequence: WWMAAABWWWVAAAAWW



Reverse complement motif Consensus sequence: WWTTTTVWWWBTTTYWW

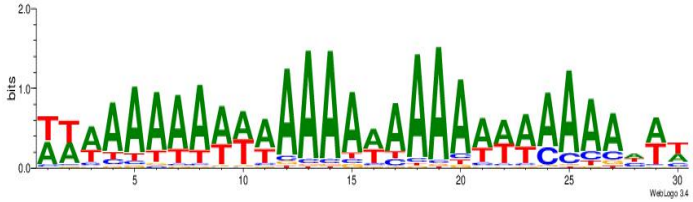


Dataset #:	1
Motif ID:	1
Motif name:	C001
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	14
Number of overlap:	17
Similarity score:	0.0139635

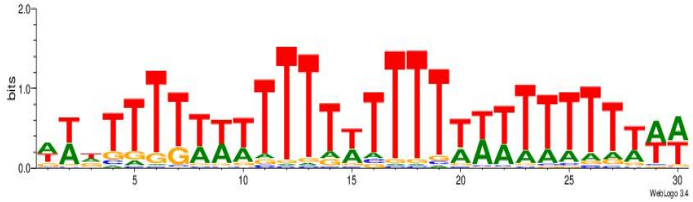
Alignment:

```
WWHTTTTWWTTTTTWTTTTTWWTTTTTWWW
-------------WWTYTTTMWWKYTTTHW
```

Original motif Consensus sequence:
WWWAAAAAWWAAAAAWAAAAAWWAAAAHWW



Reverse complement motif Consensus sequence:
WWHTTTTWWTTTTTWTTTTTWWTTTTTWWW



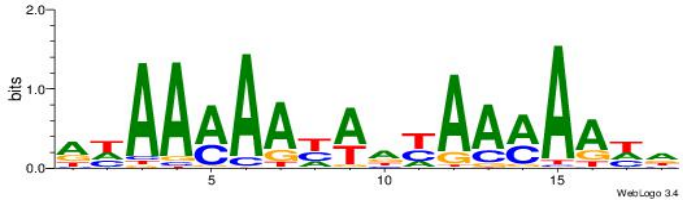
Dataset #:	1
Motif ID:	69
Motif name:	C069
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	17
Similarity score:	0.0179323

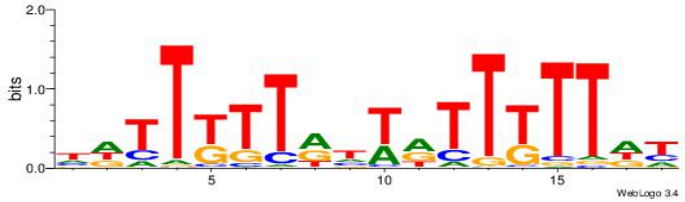
Alignment:

```
AHAAMAAYWDYAAMAAHD
-WHAAAMRWWYAAAMAWW
```

Original motif Consensus sequence: AHAAMAAYWDYAAMAAHD

Reverse complement motif Consensus sequence:
DHTTYTTMDWMTTYTTHT



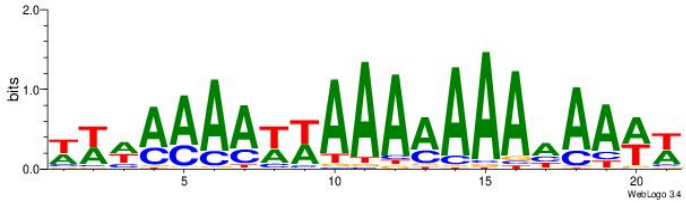


Dataset #:	1
Motif ID:	10
Motif name:	C010
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	17
Similarity score:	0.0242721

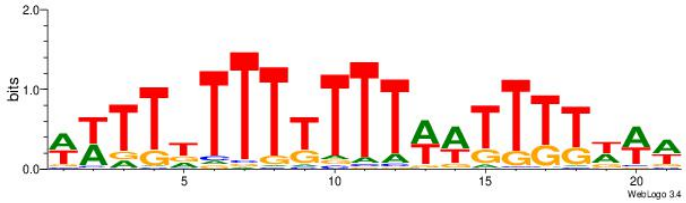
Alignment:

```
WWTTTTTTTTTTWWTTTTWWW
---WWTYTTTMWWKYTTTHW-
```

Original motif Consensus sequence: WWWAAAAWWAAAAAAAAAWW



Reverse complement motif Consensus sequence: WWTTTTTTTTTTWWTTTTWWW



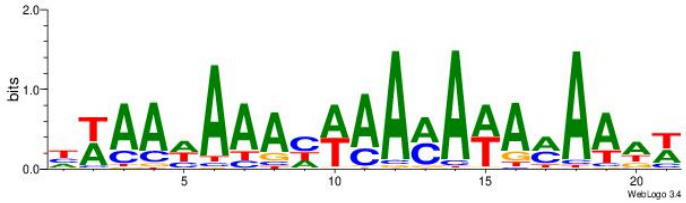
Dataset #:	1

Motif ID:	16
Motif name:	C016
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	17
Similarity score:	0.0270447

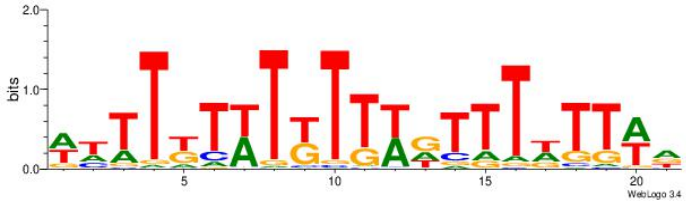
Alignment:

```
HWAAWAAAHWAAMAWAMAAWW
---WHAAAMRWWYAAAMAWW-
```

Original motif Consensus sequence: HWAAWAAAHWAAMAWAMAAWW

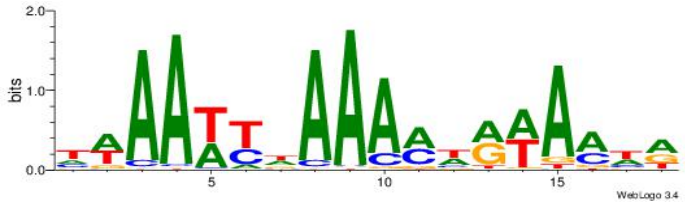


Reverse complement motif Consensus sequence: WWTTYTWTYTTWDTTTWTTWH

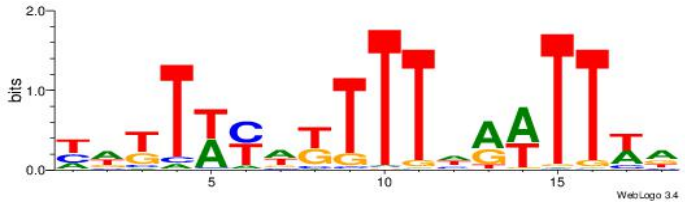


Dataset #: 1 Motif ID: 32 Motif name: C032

Original motif Consensus sequence: HWAAWYDAAAMWRWAMWR



Reverse complement motif Consensus sequence: KWYTWKWYTTTDMWTTWH



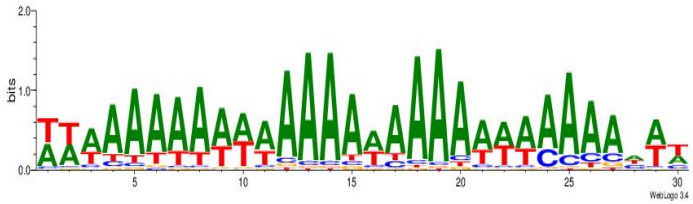
Best Matches for Motif ID 32 (Highest to Lowest)

Dataset #:	1
Motif ID:	1
Motif name:	C001
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	9
Number of overlap:	18
Similarity score:	0.0271766

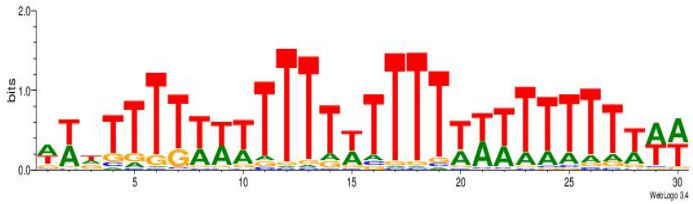
Alignment:

```
WWHTTTTWWTTTTTWTTTTTWWTTTTTWWW
--------KWYTWKWYTTTDMWTTWH----
```

Original motif Consensus sequence:
WWWAAAAAWWAAAAAWAAAAAWWAAAAHWW



Reverse complement motif Consensus sequence:
WWHTTTTWWTTTTTWTTTTTWWTTTTTWWW

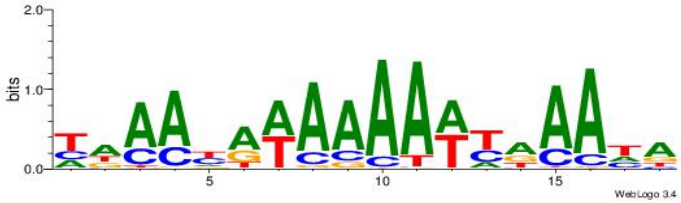


Dataset #:	1
Motif ID:	24
Motif name:	C024
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif

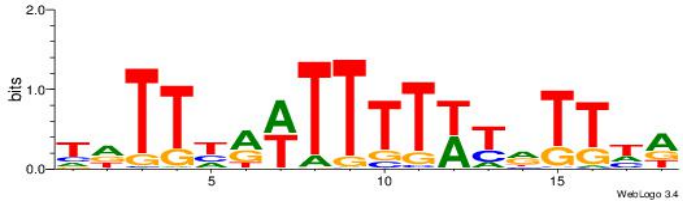
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.0299469

Alignment:
TDAAYRWAAAAWYDAAHA
HWAAWYDAAAMWRWAMWR

Original motif Consensus sequence: TDAAYRWAAAAWYDAAHA



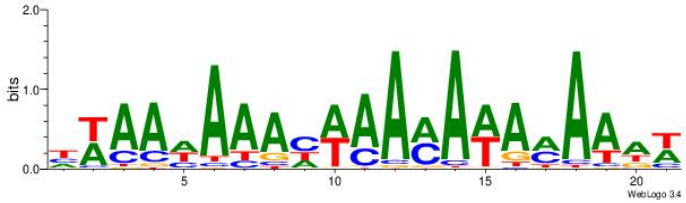
Reverse complement motif Consensus sequence: THTTDMWTTTTWKMTTDA



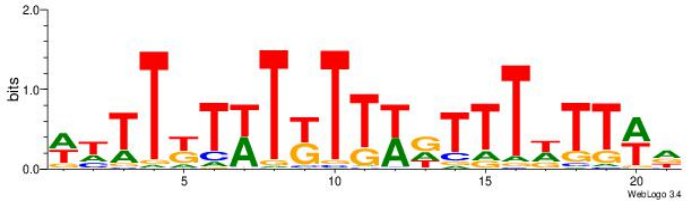
Dataset #:	1
Motif ID:	16
Motif name:	C016
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	18
Similarity score:	0.0305692

Alignment:
HWAAWAAAHWAAMAWAMAAWW
---HWAAWYDAAAMWRWAMWR

Original motif Consensus sequence: HWAAWAAAHWAAMAWAMAAWW



Reverse complement motif Consensus sequence: WWTTYTWTYTTWDTTTWTTWH

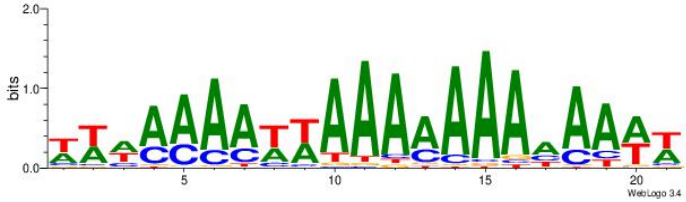


Dataset #:	1
Motif ID:	10
Motif name:	C010
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	18
Similarity score:	0.0334855

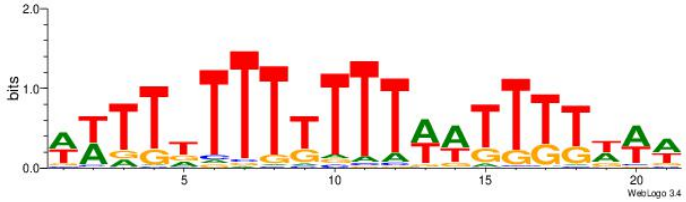
Alignment:

```
WWTTTTTTTTTTWWTTTTWWW
-KWYTWKWYTTTDMWTTWH--
```

Original motif Consensus sequence: WWWAAAAWWAAAAAAAAAWW



Reverse complement motif Consensus sequence: WWTTTTTTTTTTWWTTTTWWW

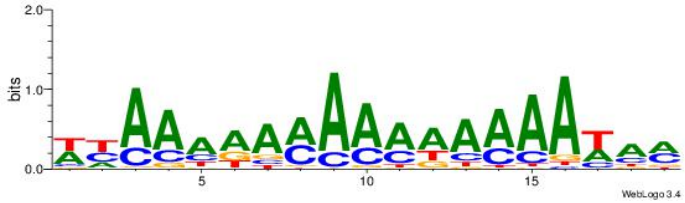


Dataset #:	1
Motif ID:	30
Motif name:	C030
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.033959

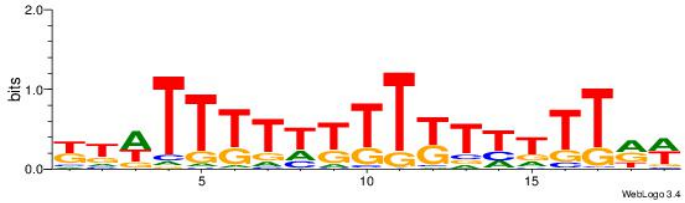
Alignment:

```
YTWTTTTTTTTYTTTTTMW
-KWYTWKWYTTTDMWTTWH
```

Original motif Consensus sequence: WYAAAAAMAAAAAAAAWAM



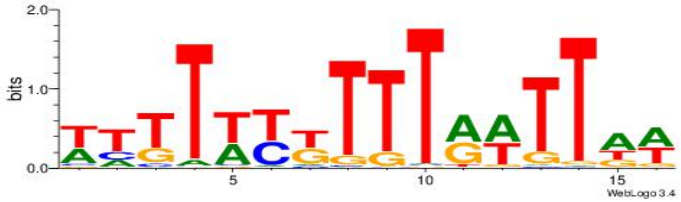
Reverse complement motif Consensus sequence: YTWTTTTTTTTYTTTTTMW



Dataset #: 1 Motif ID: 33 Motif name: C033

Original motif Consensus sequence: WWAAWYAAAMRWAAAW

Reverse complement motif Consensus sequence: WTTTWKYTTTMWTTWW



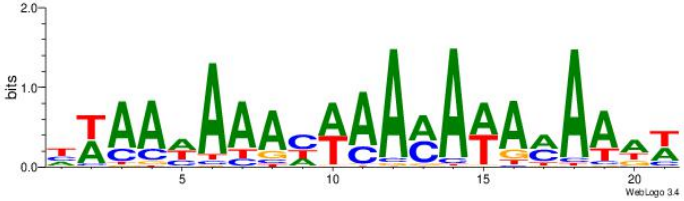
Best Matches for Motif ID 33 (Highest to Lowest)

Dataset #:	1
Motif ID:	16
Motif name:	C016
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	16
Similarity score:	0.0145744

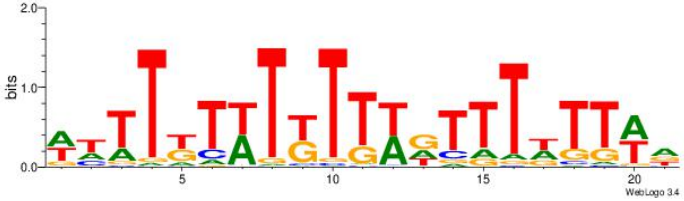
Alignment:

```
HWAAWAAAHWAAMAWAMAAWW
---WWAAWYAAAMRWAAAW--
```

Original motif Consensus sequence: HWAAWAAAHWAAMAWAMAAWW



Reverse complement motif Consensus sequence: WWTTYTWTYTTWDTTTWTTWH

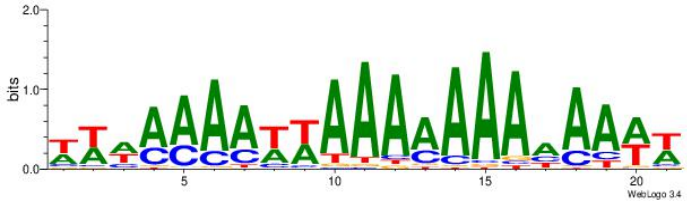


Dataset #:	1
Motif ID:	10
Motif name:	C010
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	16
Similarity score:	0.0181127

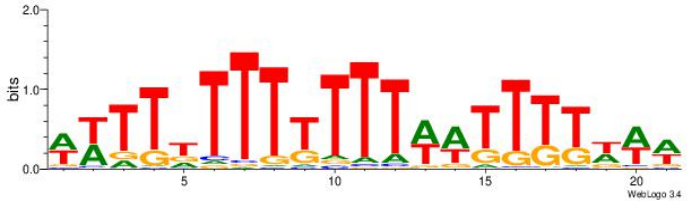
Alignment:

```
WWWAAAAWWAAAAAAAAAAWW
---WWAAWYAAAMRWAAAW--
```

Original motif Consensus sequence: WWWAAAAWWAAAAAAAAAAWW



Reverse complement motif Consensus sequence: WWTTTTTTTTTTWWTTTTWWW

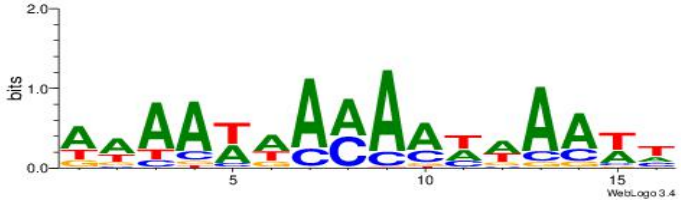


Dataset #:	1
Motif ID:	98
Motif name:	C098
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

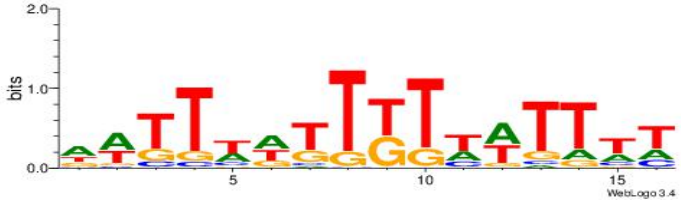
Number of overlap: 16
Similarity score: 0.0203419

Alignment:
HWTTWWTTYTWWTTTT
WTTTWKYTTTMWTTWW

Original motif Consensus sequence: AAAAWWAMAAWWAAWH



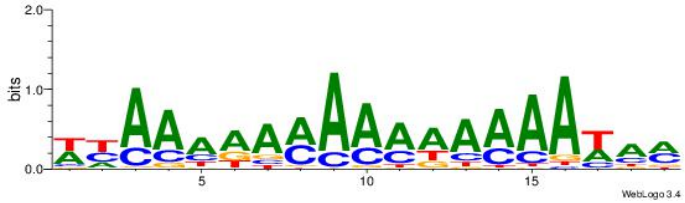
Reverse complement motif Consensus sequence:
HWTTWWTTYTWWTTTT



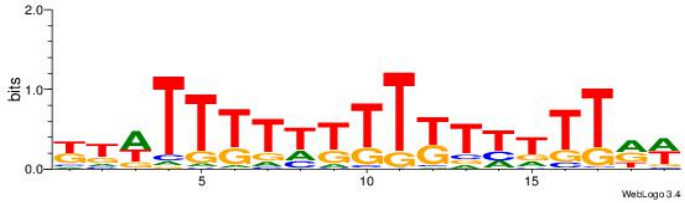
Dataset #: 1
Motif ID: 30
Motif name: C030
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 16
Similarity score: 0.0203703

Alignment:
YTWTTTTTTTTYTTTTTMW
---WTTTWKYTTTMWTTWW

Original motif Consensus sequence: WYAAAAAMAAAAAAAAWAM



Reverse complement motif Consensus sequence: YTWTTTTTTTTYTTTTTMW

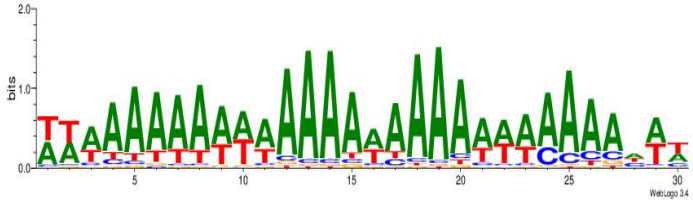


Dataset #:	1
Motif ID:	1
Motif name:	C001
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	10
Number of overlap:	16
Similarity score:	0.0209377

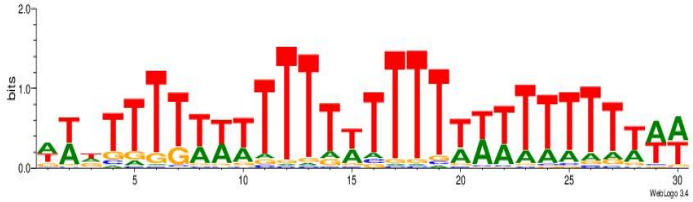
Alignment:

```
WWWAAAAAWWAAAAAWAAAAAWWAAAAHWW
-----WWAAWYAAAMRWAAAW---------
```

Original motif Consensus sequence: WWWAAAAAWWAAAAAWAAAAAWWAAAAHWW

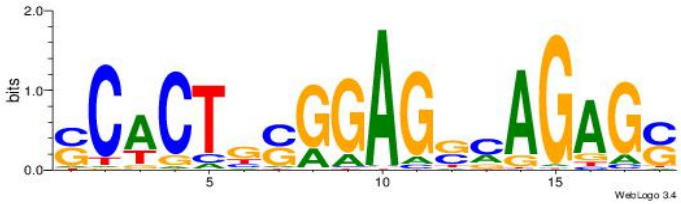


Reverse complement motif Consensus sequence: WWHTTTTWWTTTTTWTTTTTWWTTTTTWWW

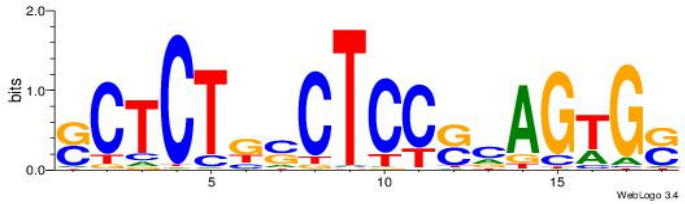


Dataset #: 1 **Motif ID: 34** **Motif name: C034**

Original motif Consensus sequence: SCACTGSGGAGSMAGAGS



Reverse complement motif Consensus sequence: SCTCTRSCTCCSCAGTGS



Best Matches for Motif ID 34 (Highest to Lowest)

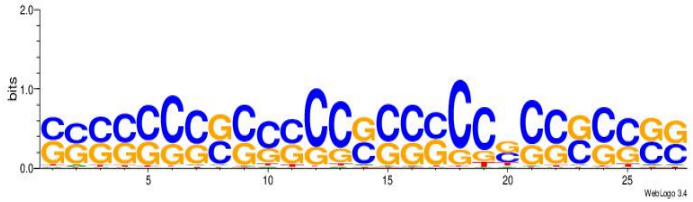
Dataset #:	1
Motif ID:	4
Motif name:	C004
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.0701833

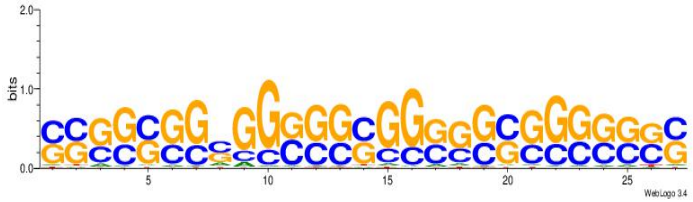
Alignment:

```
SSSSSSGSGGSSSSGGSSSSSGSSSSS
--------SCACTGSGGAGSMAGAGS-
```

Original motif Consensus sequence: SSSSSCSSSSSCCSSSSCCSCSSSSSS

Reverse complement motif Consensus sequence: SSSSSSGSGGSSSSGGSSSSSGSSSSS

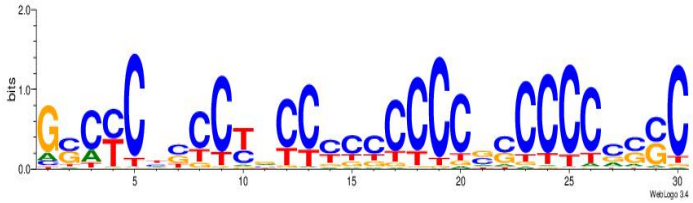




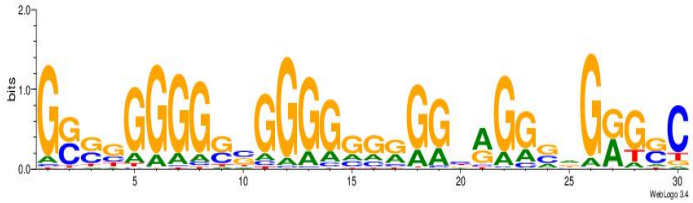
Dataset #: 1
Motif ID: 3
Motif name: C003
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 18
Similarity score: 0.0741737

Alignment:
GSSGGGGGSSGGGGGGKGGVMGGSHGKGSC
-SCACTGSGGAGSMAGAGS----------

Original motif Consensus sequence:
GSCYCHSCCYVCCYCCCCCCSSCCCCCSSC



Reverse complement motif Consensus sequence:
GSSGGGGGSSGGGGGGKGGVMGGSHGKGSC



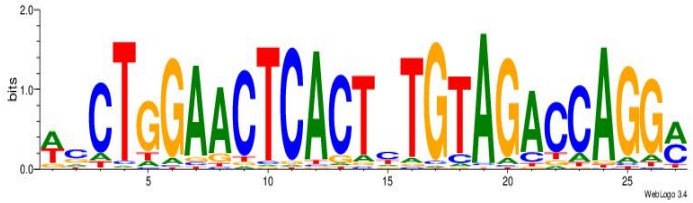
Dataset #: 1

Motif ID:	13
Motif name:	C013
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	10
Number of overlap:	18
Similarity score:	0.0750158

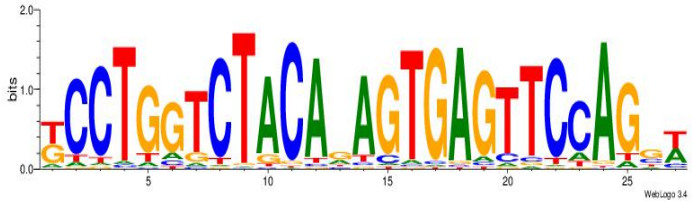
Alignment:

```
YCCTGGTCTACADAGTGAGTTCCAGVW
SCTCTRSCTCCSCAGTGS---------
```

Original motif Consensus sequence:
WVCTGGAACTCACTHTGTAGACCAGGM



Reverse complement motif Consensus sequence:
YCCTGGTCTACADAGTGAGTTCCAGVW

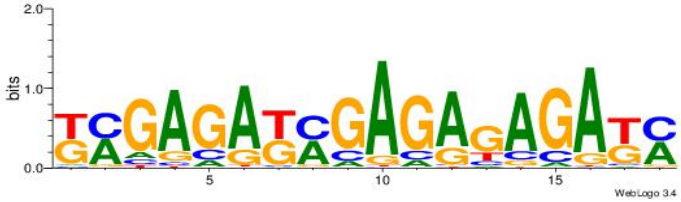


Dataset #:	1
Motif ID:	11
Motif name:	C011
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	18

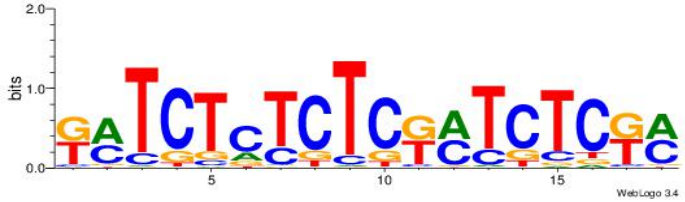
Similarity score: 0.0801719

Alignment:
RRTCTCTCTCRRTCTCRR
SCTCTRSCTCCSCAGTGS

Original motif Consensus sequence: KMGAGAKMGAGAGAGAKM



Reverse complement motif Consensus sequence:
RRTCTCTCTCRRTCTCRR

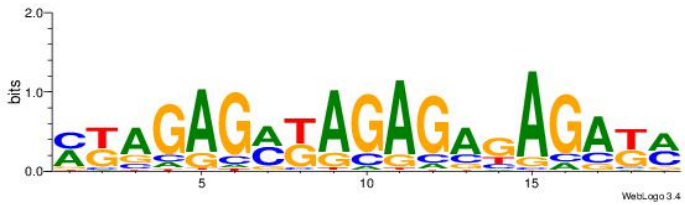


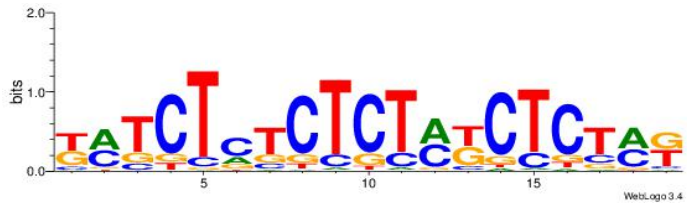
Dataset #: 1
Motif ID: 12
Motif name: C012
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 18
Similarity score: 0.0806452

Alignment:
YRTCTCTCTCTRYCTCTRR
SCTCTRSCTCCSCAGTGS-

Original motif Consensus sequence: MKAGAGMKAGAGAGAGAKM

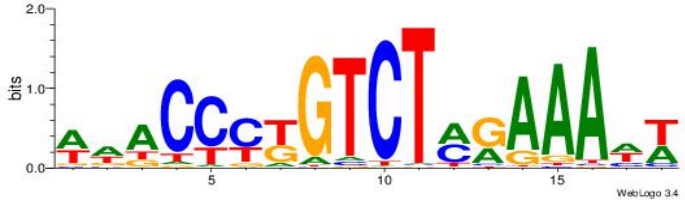
Reverse complement motif Consensus sequence:
YRTCTCTCTCTRYCTCTRR



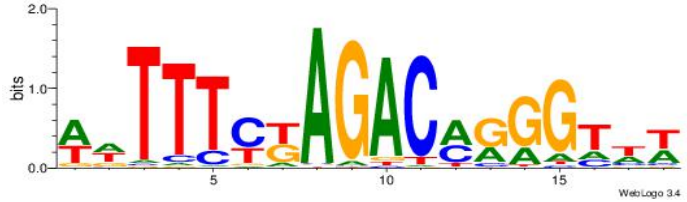


Dataset #: 1 Motif ID: 35 Motif name: C035

Original motif Consensus sequence: WWACCYKGTCTMRAAAWW



Reverse complement motif Consensus sequence: WWTTTMYAGACRKGGTWW



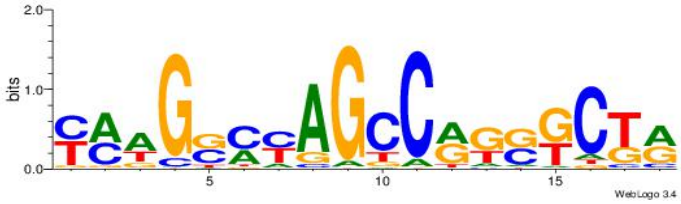
Best Matches for Motif ID 35 (Highest to Lowest)

Dataset #:	1
Motif ID:	73
Motif name:	C073
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.0646565

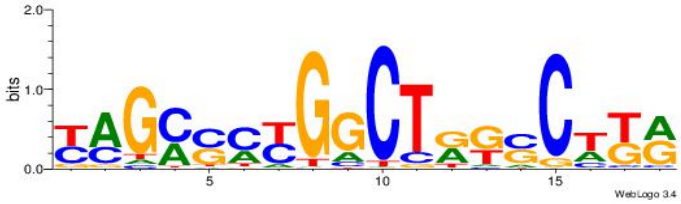
Alignment:

YMWGSMYAGCCRKSKCTR
WWTTTMYAGACRKGGTWW

Original motif Consensus sequence: YMWGSMYAGCCRKSKCTR



Reverse complement motif Consensus sequence: KAGYSYKGGCTKRSCWYK

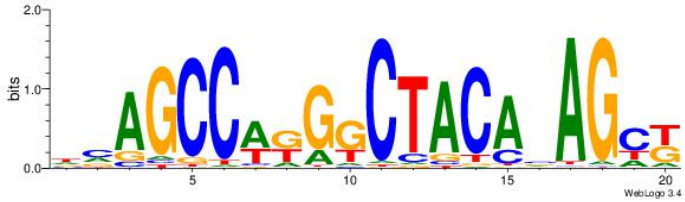


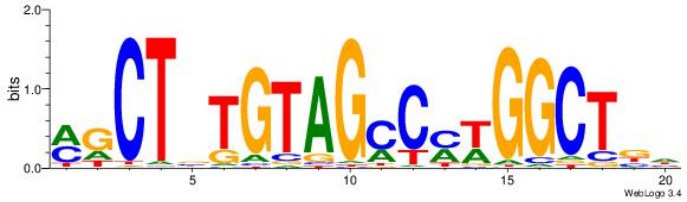
Dataset #:	1
Motif ID:	15
Motif name:	C015
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.0694959

Alignment:
DVAGCCWKGGCTACAVAGCK
-WWACCYKGTCTMRAAAWW-

Original motif Consensus sequence: DVAGCCWKGGCTACAVAGCK

Reverse complement motif Consensus sequence: RGCTVTGTAGCCYWGGCTVD

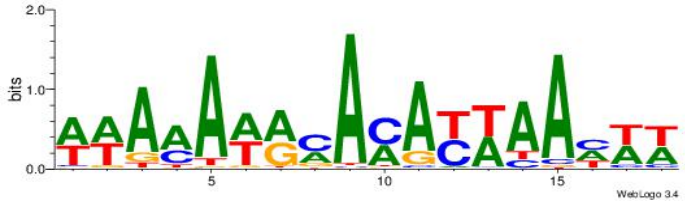




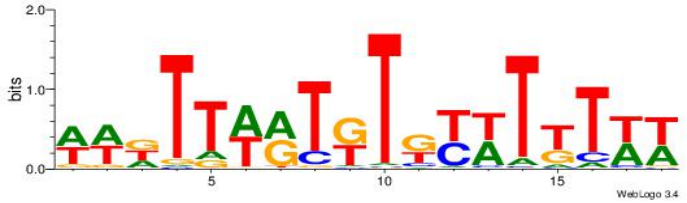
Dataset #:	1
Motif ID:	62
Motif name:	C062
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.0825414

Alignment:
WWAMAWRMAMAYWAAHWW
WWACCYKGTCTMRAAAWW

Original motif Consensus sequence: WWAMAWRMAMAYWAAHWW



Reverse complement motif Consensus sequence: WWDTTWMTRTRKWTYTWW



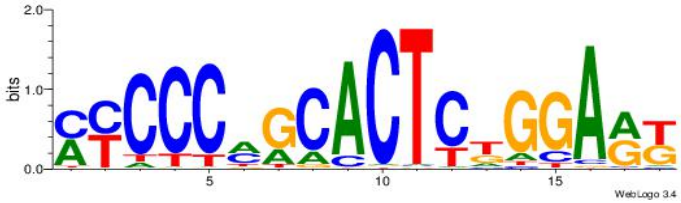
Dataset #:	1

Motif ID:	99
Motif name:	C099
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.0841277

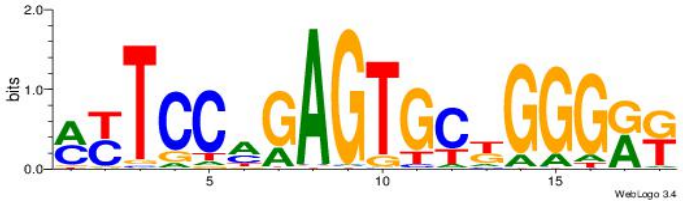
Alignment:

```
MYCCCMGCACTCKGGARK
WWACCYKGTCTMRAAAWW
```

Original motif Consensus sequence: MYCCCMGCACTCKGGARK



Reverse complement motif Consensus sequence: RKTCCRGAGTGCYGGGKR

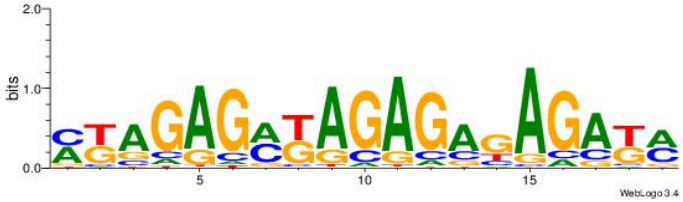


Dataset #:	1
Motif ID:	12
Motif name:	C012
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	18

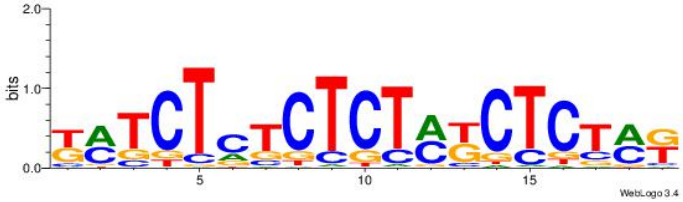
Similarity score: 0.0841589

Alignment:
YRTCTCTCTCTRYCTCTRR
-WWACCYKGTCTMRAAAWW

Original motif Consensus sequence: MKAGAGMKAGAGAGAGAKM

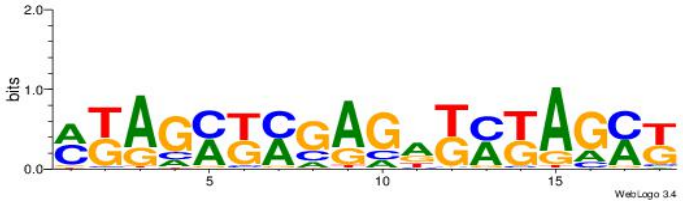


Reverse complement motif Consensus sequence:
YRTCTCTCTCTRYCTCTRR

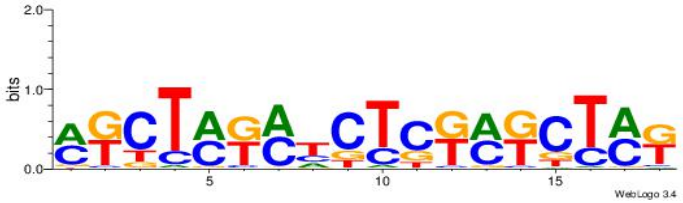


Dataset #: 1 Motif ID: 36 Motif name: C036

Original motif Consensus sequence: MKAGMKMGAGAKMKAGMK



Reverse complement motif Consensus sequence:
RRCTRRRTCTCRRRCTRY



Best Matches for Motif ID 36 (Highest to Lowest)

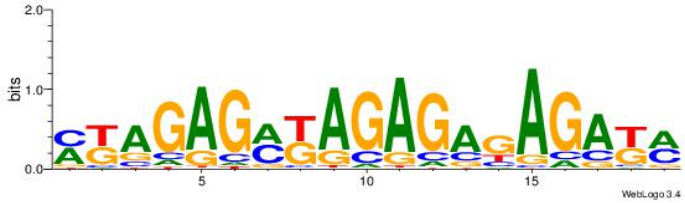
Dataset #:	1
Motif ID:	12
Motif name:	C012
Matching format of first motif:	Original Motif

Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.0191946

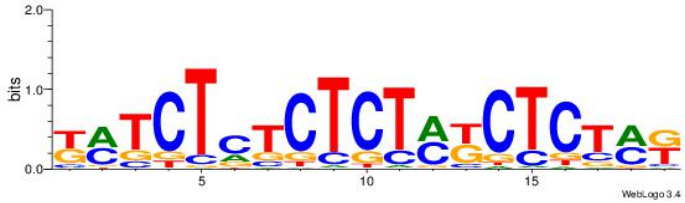
Alignment:

```
MKAGAGMKAGAGAGAGAKM
MKAGMKMGAGAKMKAGMK-
```

Original motif Consensus sequence: MKAGAGMKAGAGAGAGAKM



Reverse complement motif Consensus sequence: YRTCTCTCTCTRYCTCTRR

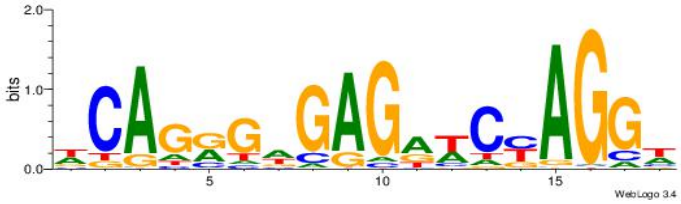


Dataset #:	1
Motif ID:	132
Motif name:	C132
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.0475695

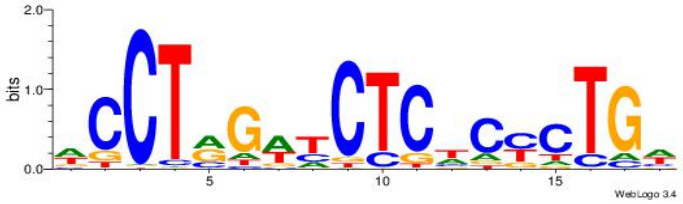
Alignment:

WCAGRGWGAGAWCYAGGW
MKAGMKMGAGAKMKAGMK

Original motif Consensus sequence: WCAGRGWGAGAWCYAGGW



Reverse complement motif Consensus sequence: WCCTKGWTCTCWCMCTGW

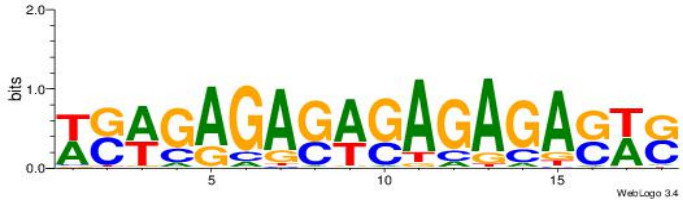


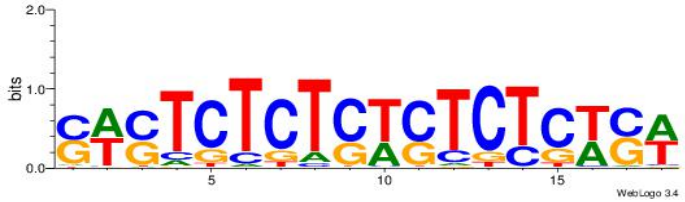
Dataset #:	1
Motif ID:	17
Motif name:	C017
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.056317

Alignment:
WSWGAGASWSAGAGASWS
MKAGMKMGAGAKMKAGMK

Original motif Consensus sequence: WSWGAGASWSAGAGASWS

Reverse complement motif Consensus sequence: SWSTCTCTSWSTCTCWSW



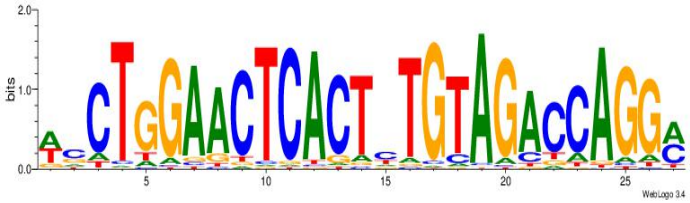


Dataset #:	1
Motif ID:	13
Motif name:	C013
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.070064

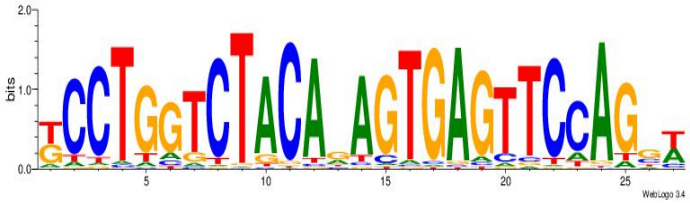
Alignment:

```
YCCTGGTCTACADAGTGAGTTCCAGVW
MKAGMKMGAGAKMKAGMK---------
```

Original motif Consensus sequence:
WVCTGGAACTCACTHTGTAGACCAGGM



Reverse complement motif Consensus sequence:
YCCTGGTCTACADAGTGAGTTCCAGVW

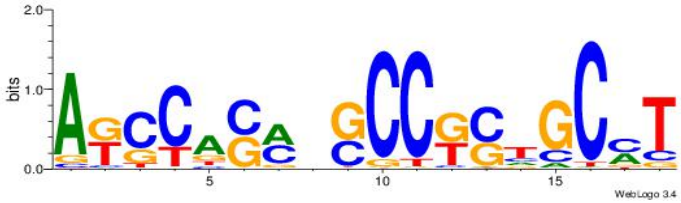


Dataset #:	1

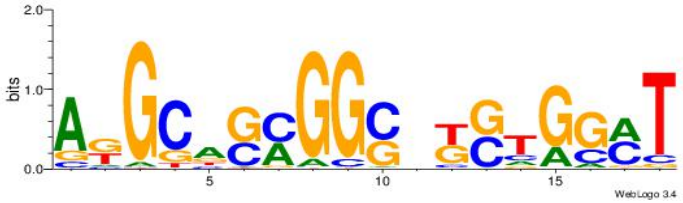
Motif ID:	93
Motif name:	C093
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.0760646

Alignment:
ARGCASYGGSVYSTGGYT
MKAGMKMGAGAKMKAGMK

Original motif Consensus sequence: AKCCASMBSCCKSTGCMT

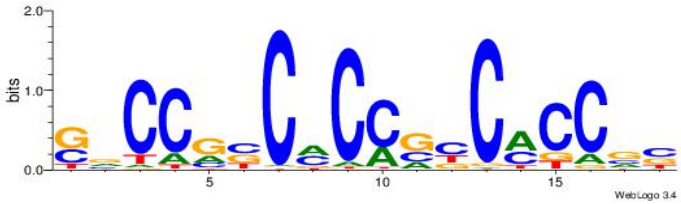


Reverse complement motif Consensus sequence: ARGCASYGGSVYSTGGYT

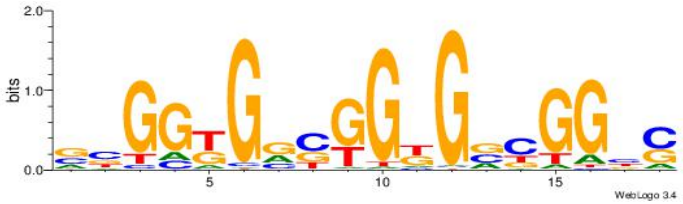


Dataset #: 1 Motif ID: 37 Motif name: C037

Original motif Consensus sequence: SVCCGBCMCCSYCMCCVB



Reverse complement motif Consensus sequence: BVGGYGKSGGYGBCGGVS



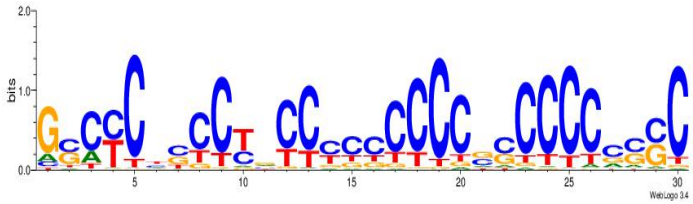
Best Matches for Motif ID 37 (Highest to Lowest)

Dataset #:	1
Motif ID:	3
Motif name:	C003
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	11
Number of overlap:	18
Similarity score:	0.0262566

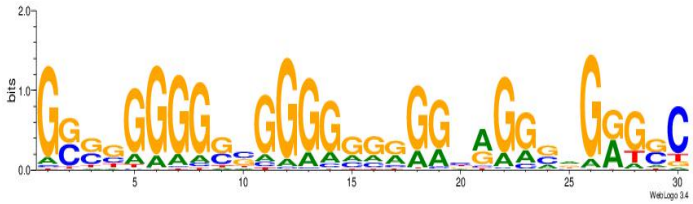
Alignment:

```
GSCYCHSCCYVCCYCCCCCCSSCCCCCSSC
----------SVCCGBCMCCSYCMCCVB--
```

Original motif Consensus sequence:
GSCYCHSCCYVCCYCCCCCCSSCCCCCSSC



Reverse complement motif Consensus sequence:
GSSGGGGGSSGGGGGGKGGVMGGSHGKGSC



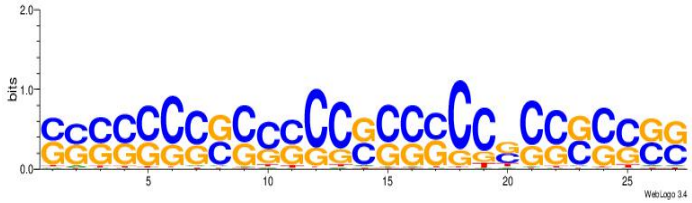
Dataset #:	1
Motif ID:	4
Motif name:	C004
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement

Direction:	Forward
Position number:	7
Number of overlap:	18
Similarity score:	0.0296812

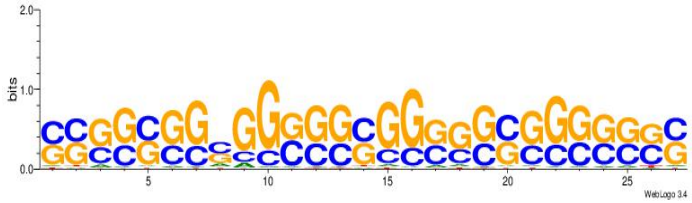
Alignment:

```
SSSSSSGSGGSSSSGGSSSSSGSSSSS
------BVGGYGKSGGYGBCGGVS---
```

Original motif Consensus sequence:
SSSSSCSSSSSCCSSSSCCSCSSSSSS



Reverse complement motif Consensus sequence:
SSSSSSGSGGSSSSGGSSSSSGSSSSS

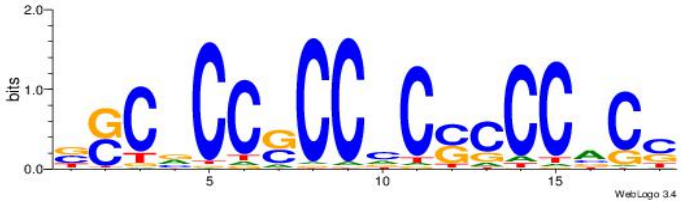


Dataset #:	1
Motif ID:	20
Motif name:	C020
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.054777

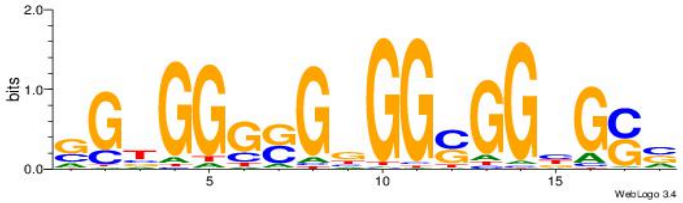
Alignment:

```
BSCVCCSCCVCSCCCACS
SVCCGBCMCCSYCMCCVB
```

Original motif Consensus sequence: BSCVCCSCCVCSCCCACS



Reverse complement motif Consensus sequence: SGTGGGSGVGGSGGVGSB

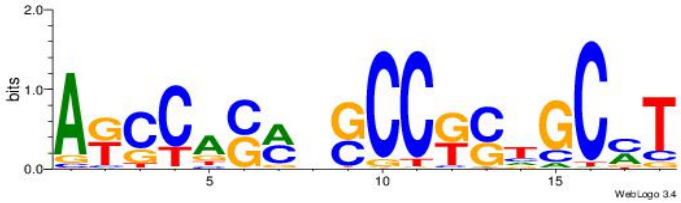


Dataset #:	1
Motif ID:	93
Motif name:	C093
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.0696791

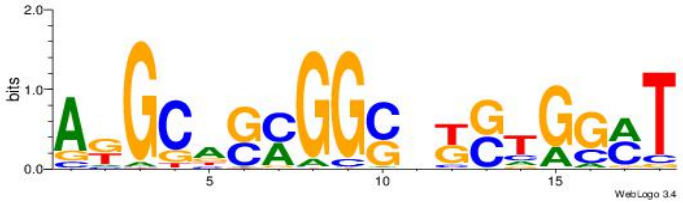
Alignment:

```
AKCCASMBSCCKSTGCMT
SVCCGBCMCCSYCMCCVB
```

Original motif Consensus sequence: AKCCASMBSCCKSTGCMT



Reverse complement motif Consensus sequence: ARGCASYGGSVYSTGGYT

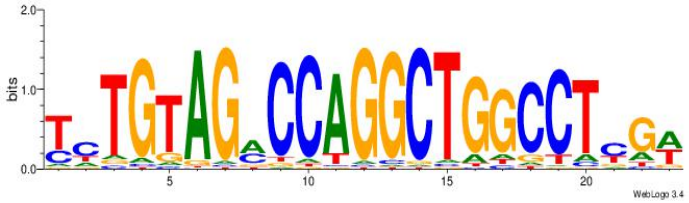


Dataset #:	1
Motif ID:	5
Motif name:	C005
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.0697843

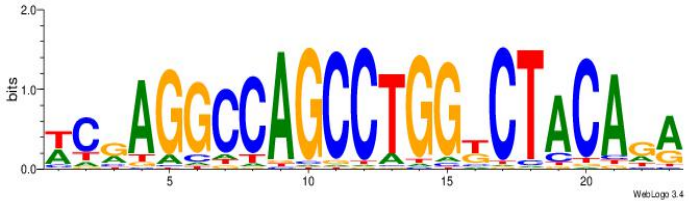
Alignment:

```
TCTGTAGMCCAGGCTGGCCTYGW
----BVGGYGKSGGYGBCGGVS-
```

Original motif Consensus sequence: TCTGTAGMCCAGGCTGGCCTYGW



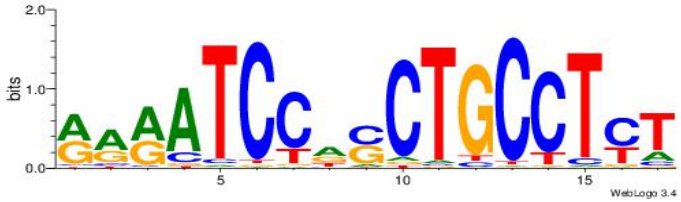
Reverse complement motif Consensus sequence: WCKAGGCCAGCCTGGYCTACAGA

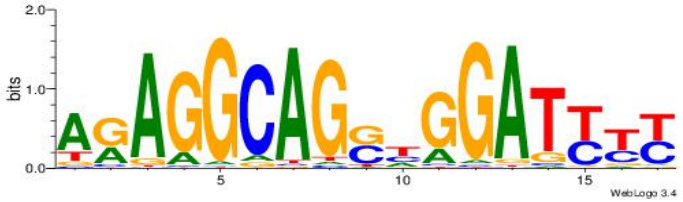


Dataset #: 1 Motif ID: 38 Motif name: C038

Original motif Consensus sequence: RRRATCCDSCTGCCTYT

Reverse complement motif Consensus sequence: AKAGGCAGSDGGATKKK





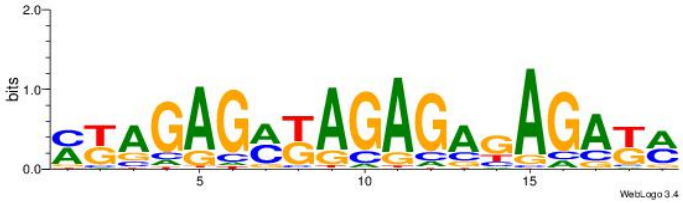
Best Matches for Motif ID 38 (Highest to Lowest)

Dataset #:	1
Motif ID:	12
Motif name:	C012
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.0591022

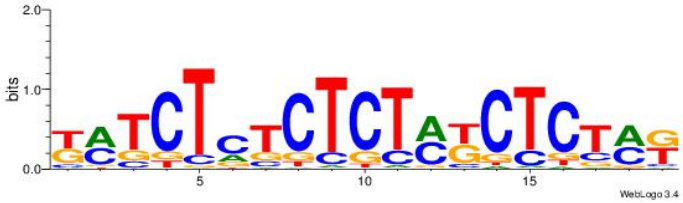
Alignment:

```
MKAGAGMKAGAGAGAGAKM
AKAGGCAGSDGGATKKK--
```

Original motif Consensus sequence: MKAGAGMKAGAGAGAGAKM



Reverse complement motif Consensus sequence: YRTCTCTCTCTRYCTCTRR

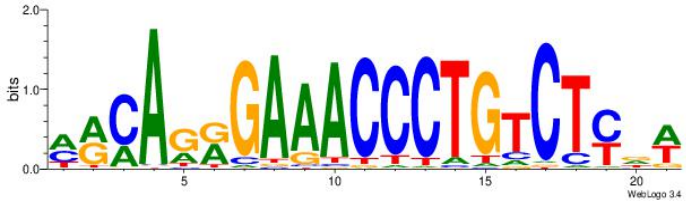


Dataset #:	1
Motif ID:	27
Motif name:	C027
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	17
Similarity score:	0.064359

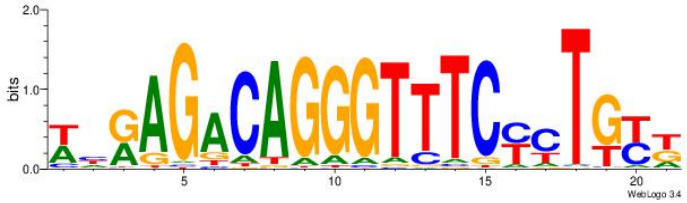
Alignment:

```
MRCAGRGAAACCCTGTCTYDW
---RRRATCCDSCTGCCTYT-
```

Original motif Consensus sequence: MRCAGRGAAACCCTGTCTYDW



Reverse complement motif Consensus sequence: WHKAGACAGGGTTTCMCTGKY

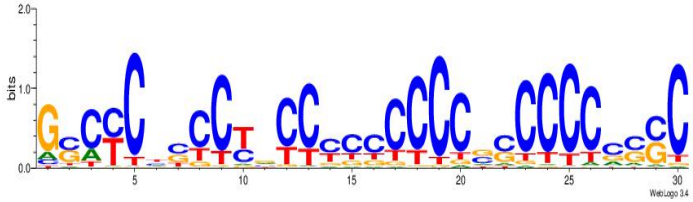


Dataset #:	1
Motif ID:	3
Motif name:	C003
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7

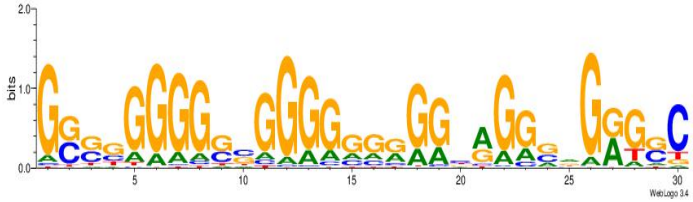
Number of overlap: 17
Similarity score: 0.0650972

Alignment:
GSSGGGGGSSGGGGGGKGGVMGGSHGKGSC
-------AKAGGCAGSDGGATKKK------

Original motif Consensus sequence:
GSCYCHSCCYVCCYCCCCCCSSCCCCCSSC



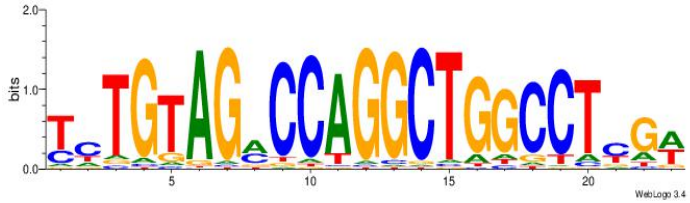
Reverse complement motif Consensus sequence:
GSSGGGGGSSGGGGGGKGGVMGGSHGKGSC



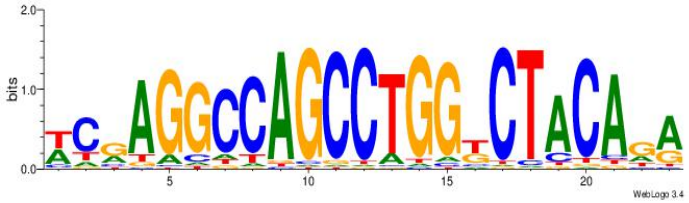
Dataset #: 1
Motif ID: 5
Motif name: C005
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 17
Similarity score: 0.0704235

Alignment:
TCTGTAGMCCAGGCTGGCCTYGW
----RRRATCCDSCTGCCTYT--

Original motif Consensus sequence: TCTGTAGMCCAGGCTGGCCTYGW



Reverse complement motif Consensus sequence: WCKAGGCCAGCCTGGYCTACAGA

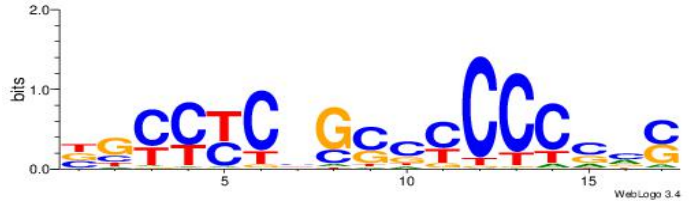


Dataset #:	1
Motif ID:	22
Motif name:	C022
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.072572

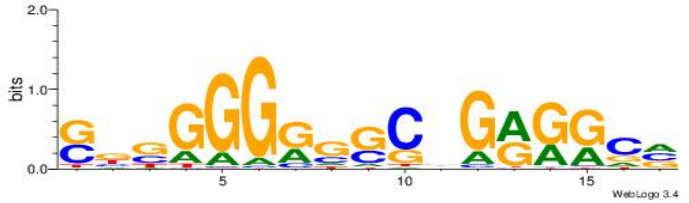
Alignment:

```
SVSGGGKGSCBGMGGCV
AKAGGCAGSDGGATKKK
```

Original motif Consensus sequence: BGCCYCBGSCYCCCSVS

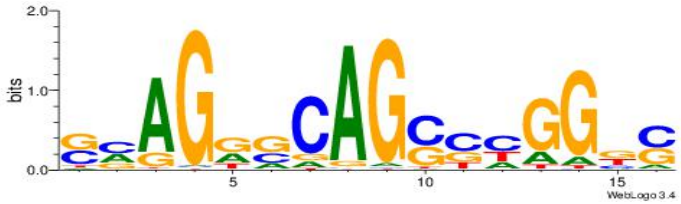


Reverse complement motif Consensus sequence: SVSGGGKGSCBGMGGCV

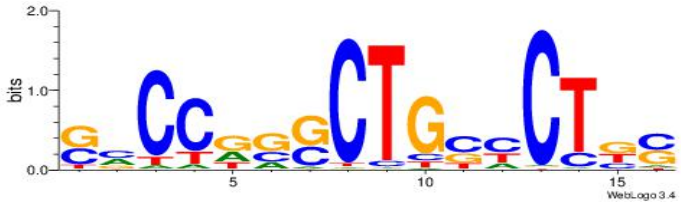


Dataset #: 1 **Motif ID: 39** **Motif name: C039**

Original motif Consensus sequence: SMAGRSCAGSSYGGBS



Reverse complement motif Consensus sequence: SBCCKSSCTGSMCTRS



Best Matches for Motif ID 39 (Highest to Lowest)

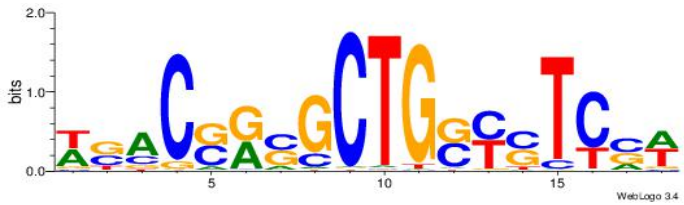
Dataset #:	1
Motif ID:	124
Motif name:	C124
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	16
Similarity score:	0.0146199

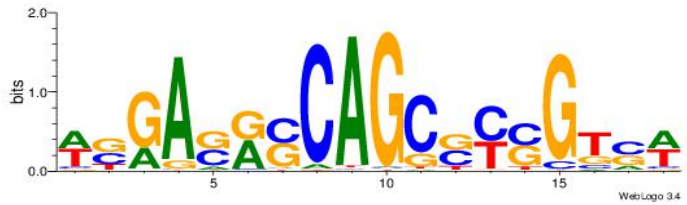
Alignment:

```
WSGASKSCAGCSMSGTSW
-SMAGRSCAGSSYGGBS-
```

Original motif Consensus sequence: WSACSRSGCTGSYSTCSW

Reverse complement motif Consensus sequence: WSGASKSCAGCSMSGTSW

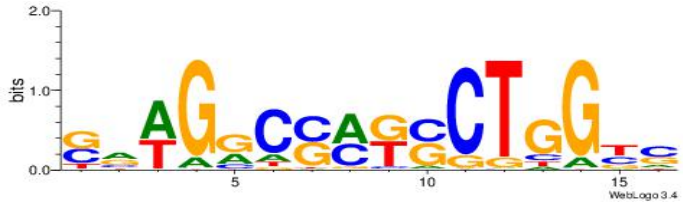




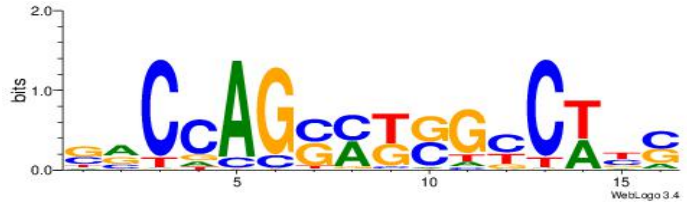
Dataset #: 1
Motif ID: 126
Motif name: C126
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 16
Similarity score: 0.0197777

Alignment:
SVWGRCSMKSCTGGYS
SMAGRSCAGSSYGGBS

Original motif Consensus sequence: SVWGRCSMKSCTGGYS



Reverse complement motif Consensus sequence: SMCCAGSYYSGMCWBS



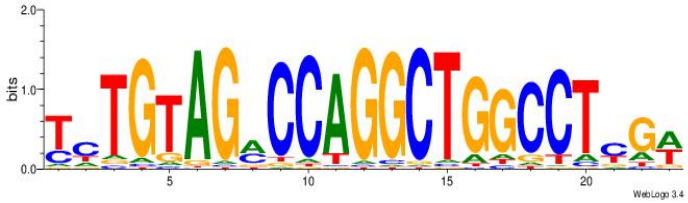
Dataset #: 1

Motif ID:	5
Motif name:	C005
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	16
Similarity score:	0.0245094

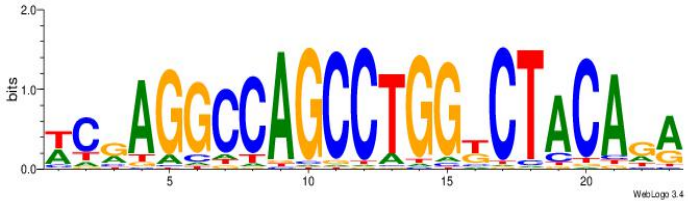
Alignment:

```
TCTGTAGMCCAGGCTGGCCTYGW
-SBCCKSSCTGSMCTRS------
```

Original motif Consensus sequence: TCTGTAGMCCAGGCTGGCCTYGW



Reverse complement motif Consensus sequence: WCKAGGCCAGCCTGGYCTACAGA

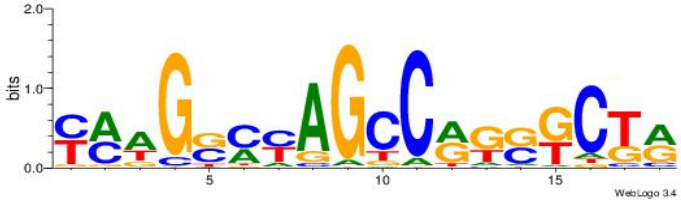


Dataset #:	1
Motif ID:	73
Motif name:	C073
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	16

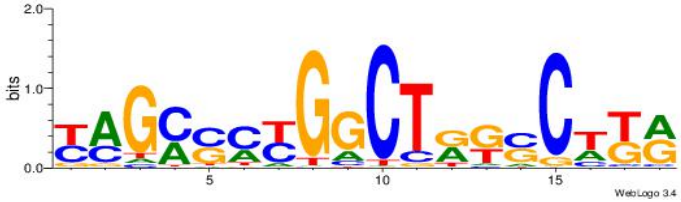
Similarity score: 0.0296818

Alignment:
KAGYSYKGGCTKRSCWYK
--SBCCKSSCTGSMCTRS

Original motif Consensus sequence: YMWGSMYAGCCRKSKCTR



Reverse complement motif Consensus sequence: KAGYSYKGGCTKRSCWYK

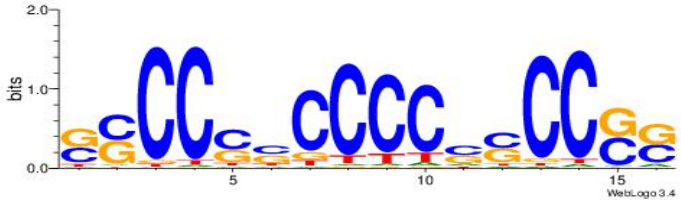


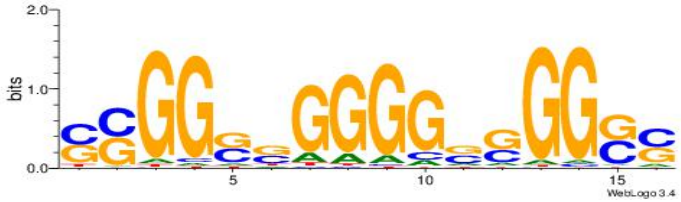
Dataset #: 1
Motif ID: 8
Motif name: C008
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 16
Similarity score: 0.0361944

Alignment:
SSCCSSCCCCSSCCSS
SBCCKSSCTGSMCTRS

Original motif Consensus sequence: SSCCSSCCCCSSCCSS

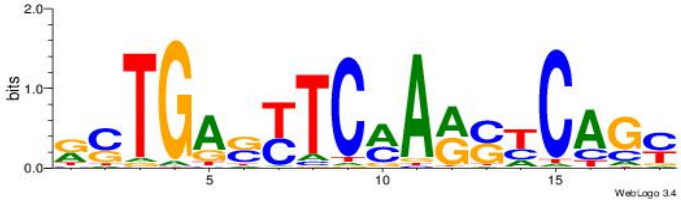
Reverse complement motif Consensus sequence: SSGGSSGGGGSSGGSS



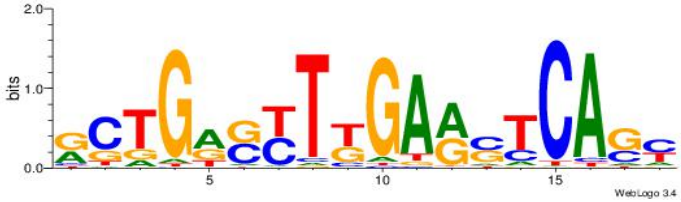


Dataset #: 1 **Motif ID: 40** **Motif name: C040**

Original motif Consensus sequence: RSTGASYTCMARSYCAGY



Reverse complement motif Consensus sequence: KCTGMSKTYGAMSTCASM



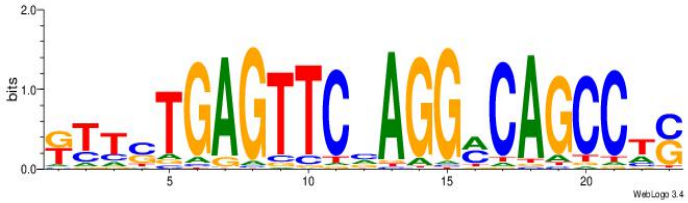
Best Matches for Motif ID 40 (Highest to Lowest)

Dataset #:	1
Motif ID:	7
Motif name:	C007
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	18
Similarity score:	0.00837268

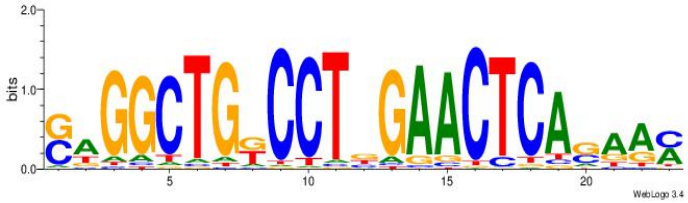
Alignment:

KTTSTGAGTTCVAGGMCAGCCTS
--RSTGASYTCMARSYCAGY---

Original motif Consensus sequence: KTTSTGAGTTCVAGGMCAGCCTS



Reverse complement motif Consensus sequence: SAGGCTGYCCTVGAACTCASAAY

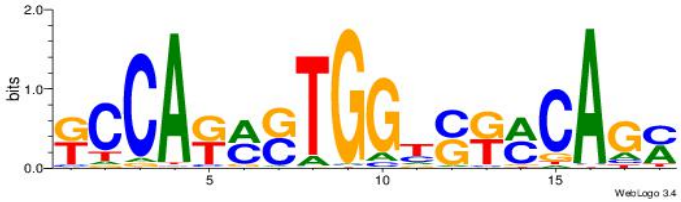


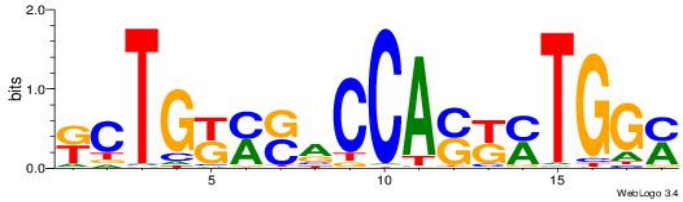
Dataset #:	1
Motif ID:	95
Motif name:	C095
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.0459628

Alignment:
RCTGYYSACCASYYTGGY
RSTGASYTCMARSYCAGY

Original motif Consensus sequence: KCCAKMSTGGTSKMCAGM

Reverse complement motif Consensus sequence: RCTGYYSACCASYYTGGY



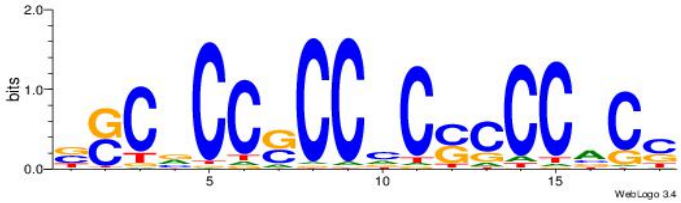


Dataset #:	1
Motif ID:	20
Motif name:	C020
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.0626293

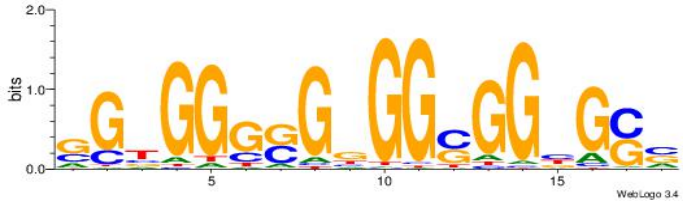
Alignment:

```
BSCVCCSCCVCSCCCACS
RSTGASYTCMARSYCAGY
```

Original motif Consensus sequence: BSCVCCSCCVCSCCCACS



Reverse complement motif Consensus sequence: SGTGGGSGVGGSGGVGSB



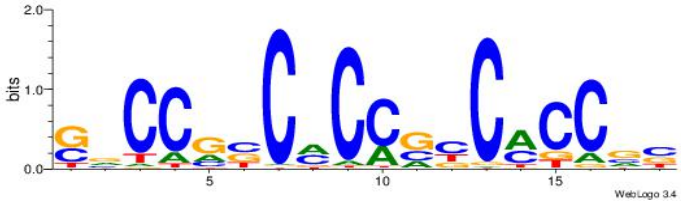
Dataset #:	1

Motif ID:	37
Motif name:	C037
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.0631815

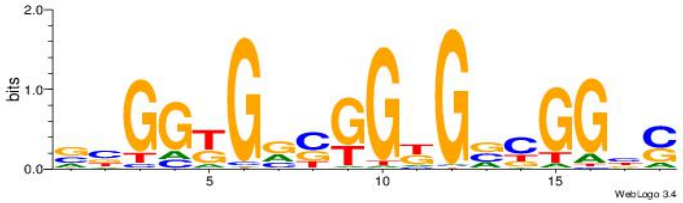
Alignment:

```
SVCCGBCMCCSYCMCCVB
RSTGASYTCMARSYCAGY
```

Original motif Consensus sequence: SVCCGBCMCCSYCMCCVB



Reverse complement motif Consensus sequence: BVGGYGKSGGYGBCGGVS

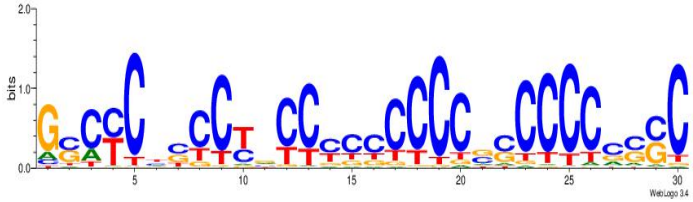


Dataset #:	1
Motif ID:	3
Motif name:	C003
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	11
Number of overlap:	18

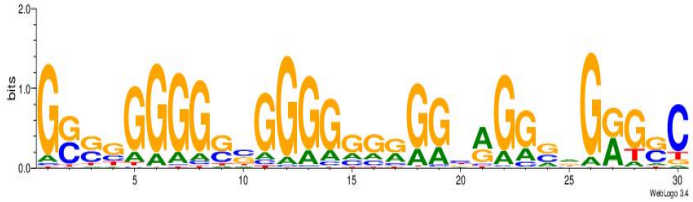
Similarity score: 0.0639062

Alignment:
GSCYCHSCCYVCCYCCCCCCSSCCCCCSSC
----------RSTGASYTCMARSYCAGY--

Original motif Consensus sequence:
GSCYCHSCCYVCCYCCCCCCSSCCCCCSSC



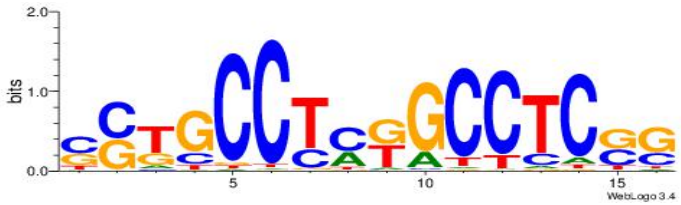
Reverse complement motif Consensus sequence:
GSSGGGGGSSGGGGGGKGGVMGGSHGKGSC



Dataset #: 1 Motif ID: 41 Motif name: C041

Original motif Consensus sequence: CSGAGGCMKAGGCASS

Reverse complement motif Consensus sequence:
SSTGCCTYRGCCTCSG



Best Matches for Motif ID 41 (Highest to Lowest)

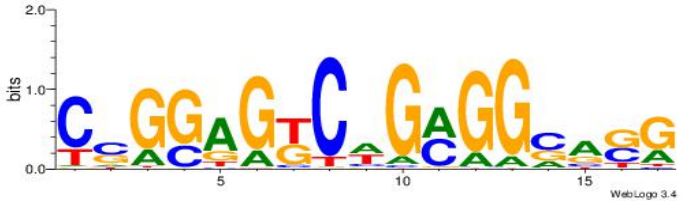
Dataset #:	1
Motif ID:	86
Motif name:	C086
Matching format of first motif:	Original Motif

Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	16
Similarity score:	0.0124428

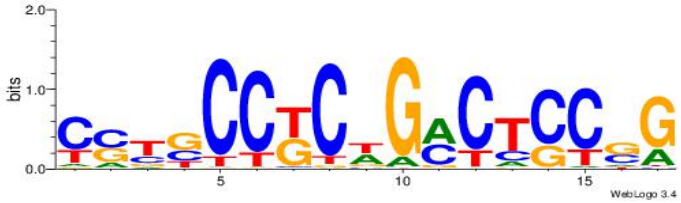
Alignment:

```
CSGGAGKCWGMGGSASG
-CSGAGGCMKAGGCASS
```

Original motif Consensus sequence: CSGGAGKCWGMGGSASG



Reverse complement motif Consensus sequence: CSTSCCYCWGRCTCCSG

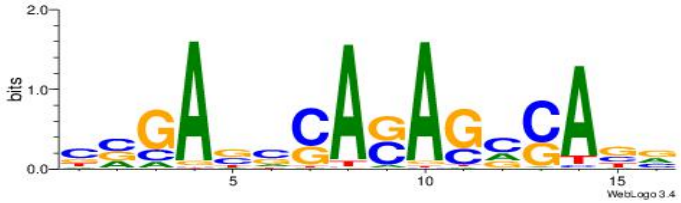


Dataset #:	1
Motif ID:	28
Motif name:	C028
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	16
Similarity score:	0.0322593

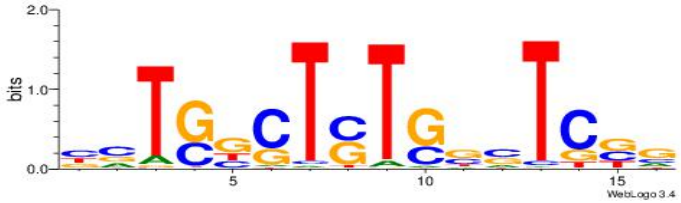
Alignment:

BVGASSCASAGVSABV
CSGAGGCMKAGGCASS

Original motif Consensus sequence: BVGASSCASAGVSABV



Reverse complement motif Consensus sequence: VBTSVCTSTGSSTCVB

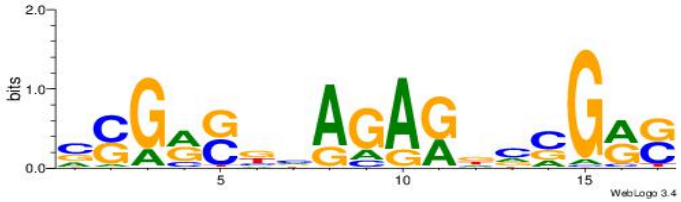


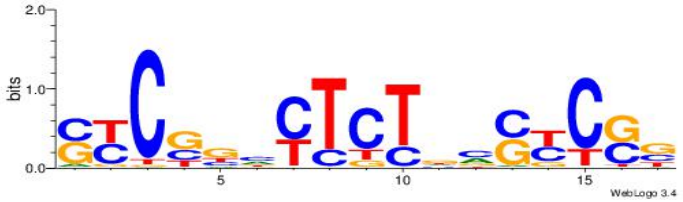
Dataset #:	1
Motif ID:	85
Motif name:	C085
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	16
Similarity score:	0.0352485

Alignment:
VSGRSBHAGARDVSGRS
CSGAGGCMKAGGCASS-

Original motif Consensus sequence: VSGRSBHAGARDVSGRS

Reverse complement motif Consensus sequence: SKCSVHMTCTDBSKCSV

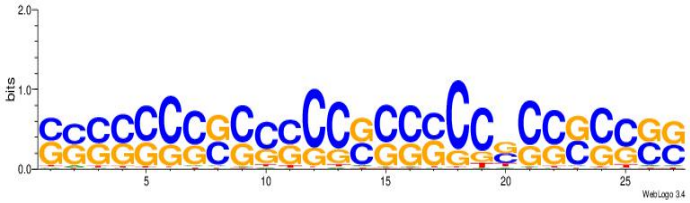




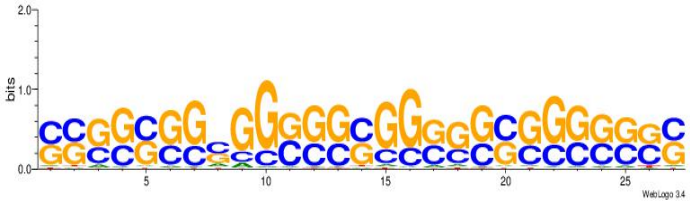
Dataset #: 1
Motif ID: 4
Motif name: C004
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 8
Number of overlap: 16
Similarity score: 0.0383703

Alignment:
SSSSSSGSGGSSSSGGSSSSSGSSSSS
-------CSGAGGCMKAGGCASS----

Original motif Consensus sequence:
SSSSSCSSSSSCCSSSSCCSCSSSSSS



Reverse complement motif Consensus sequence:
SSSSSSGSGGSSSSGGSSSSSGSSSSS



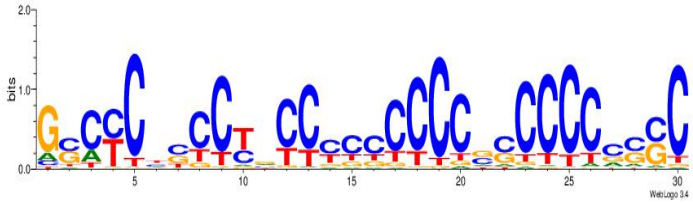
Dataset #: 1

Motif ID:	3
Motif name:	C003
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	16
Similarity score:	0.0441523

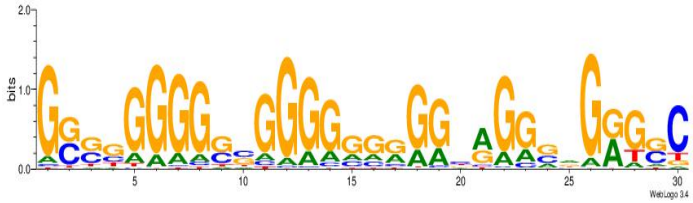
Alignment:

```
GSSGGGGGSSGGGGGGKGGVMGGSHGKGSC
------------CSGAGGCMKAGGCASS--
```

Original motif Consensus sequence:
GSCYCHSCCYVCCYCCCCCCSSCCCCCSSC

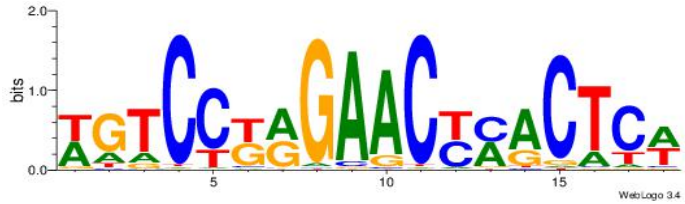


Reverse complement motif Consensus sequence:
GSSGGGGGSSGGGGGGKGGVMGGSHGKGSC

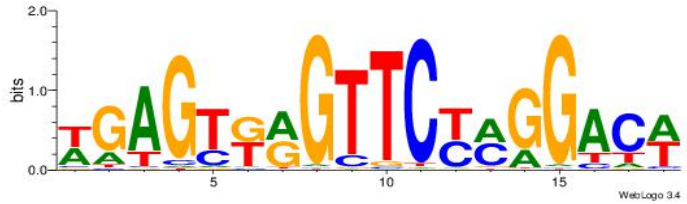


Dataset #: 1 Motif ID: 42 Motif name: C042

Original motif Consensus sequence: WGTCCKRGAACYMACTCW



Reverse complement motif Consensus sequence:
WGAGTRMGTTCKRGGACW



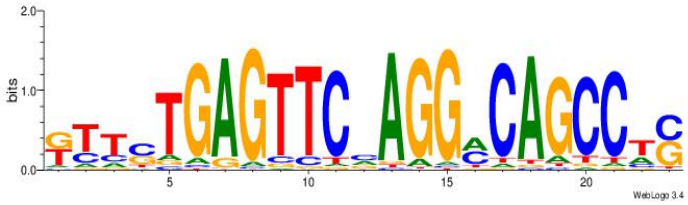
Best Matches for Motif ID 42 (Highest to Lowest)

Dataset #:	1
Motif ID:	7
Motif name:	C007
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	18
Similarity score:	0.0228216

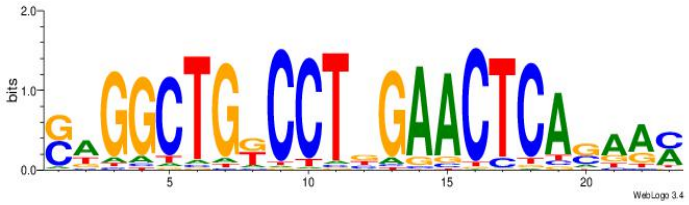
Alignment:

```
KTTSTGAGTTCVAGGMCAGCCTS
-----WGAGTRMGTTCKRGGACW
```

Original motif Consensus sequence: KTTSTGAGTTCVAGGMCAGCCTS



Reverse complement motif Consensus sequence: SAGGCTGYCCTVGAACTCASAAY

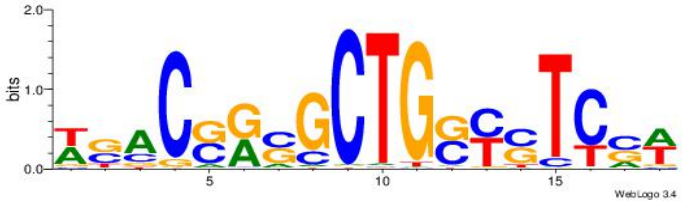


Dataset #:	1
Motif ID:	124
Motif name:	C124
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement

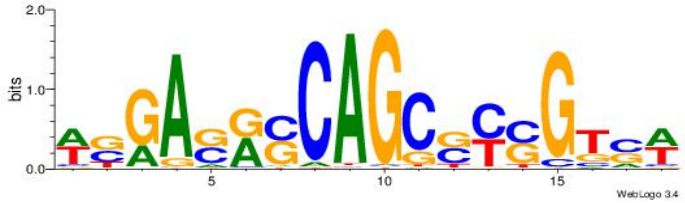
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.0523737

Alignment:
WSGASKSCAGCSMSGTSW
WGTCCKRGAACYMACTCW

Original motif Consensus sequence: WSACSRSGCTGSYSTCSW



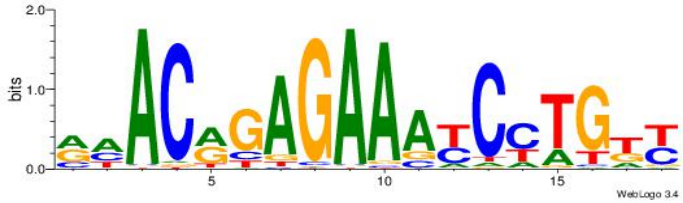
Reverse complement motif Consensus sequence:
WSGASKSCAGCSMSGTSW



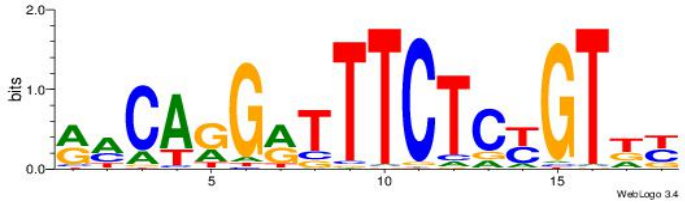
Dataset #:	1
Motif ID:	53
Motif name:	C053
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.0536019

Alignment:
MRCAGGMTTTCTCKGTYK
WGAGTRMGTTCKRGGACW

Original motif Consensus sequence: RMACRGAGAAAYCCTGKY



Reverse complement motif Consensus sequence: MRCAGGMTTTCTCKGTYK

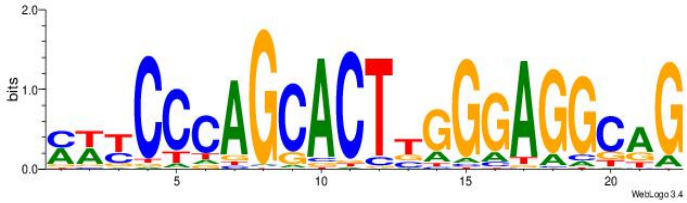


Dataset #:	1
Motif ID:	19
Motif name:	C019
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.0577538

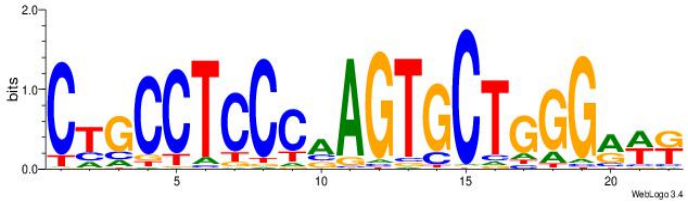
Alignment:

```
CTGCCTCCCAAGTGCTGGGMWR
----WGAGTRMGTTCKRGGACW
```

Original motif Consensus sequence: MWYCCCAGCACTTGGGAGGCAG



Reverse complement motif Consensus sequence: CTGCCTCCCAAGTGCTGGGMWR

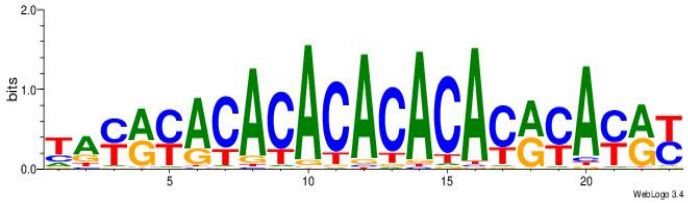


Dataset #:	1
Motif ID:	2
Motif name:	C002
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.0602971

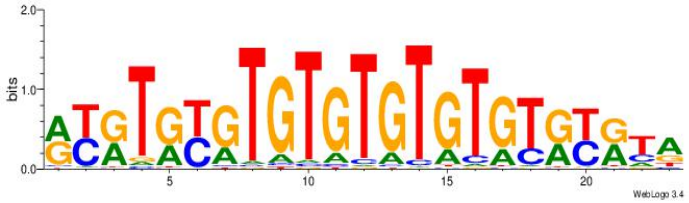
Alignment:

```
MKKTKKGTGTGTGTGTGTKKKTA
-----WGAGTRMGTTCKRGGACW
```

Original motif Consensus sequence: TAYRYACACACACACACRYAYRY



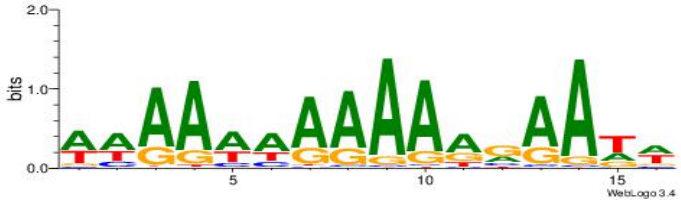
Reverse complement motif Consensus sequence: MKKTKKGTGTGTGTGTGTKKKTA

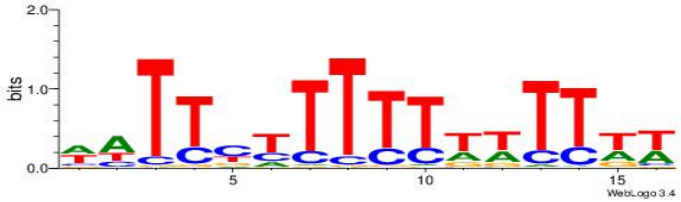


Dataset #: 1 Motif ID: 43 Motif name: C043

Original motif Consensus sequence: WWAAWAAAAAARAATW

Reverse complement motif Consensus sequence: WATTMTTTTTTWTTWW





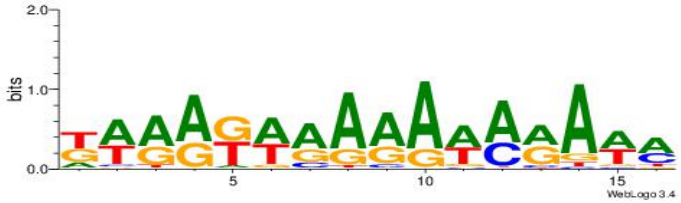
Best Matches for Motif ID 43 (Highest to Lowest)

Dataset #:	1
Motif ID:	152
Motif name:	C152
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	16
Similarity score:	0.0263401

Alignment:

```
YWTKYWTKTKWYKKWR
WATTMTTTTTTWTTWW
```

Original motif Consensus sequence: KWRRKWRARAWMRAWM



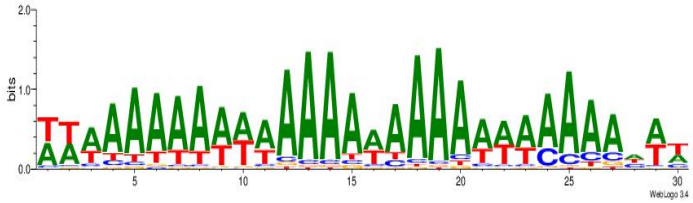
Reverse complement motif Consensus sequence: YWTKYWTKTKWYKKWR

Dataset #:	1
Motif ID:	1
Motif name:	C001
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	16
Similarity score:	0.0268347

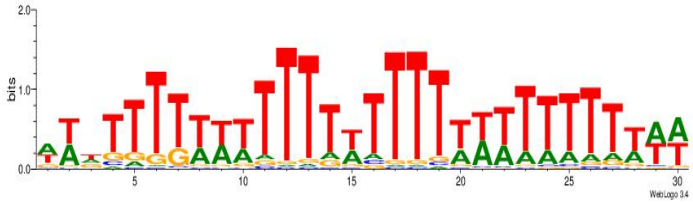
Alignment:

```
WWWAAAAAWWAAAAAWAAAAAWWAAAAHWW
-----WWAAWAAAAAARAATW---------
```

Original motif Consensus sequence:
WWWAAAAAWWAAAAAWAAAAAWWAAAAHWW



Reverse complement motif Consensus sequence:
WWHTTTTWWTTTTTWTTTTTWWTTTTTWWW

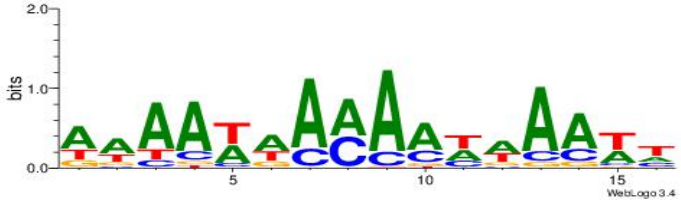


Dataset #:	1
Motif ID:	98
Motif name:	C098
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

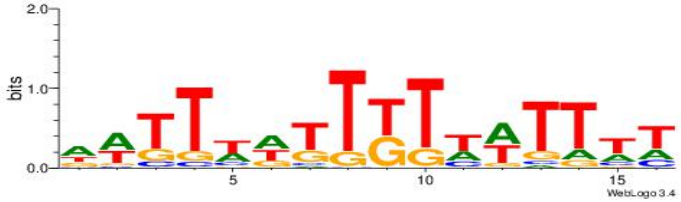
Number of overlap: 16
Similarity score: 0.0286206

Alignment:
AAAAWWAMAAWWAAWH
WWAAWAAAAAARAATW

Original motif Consensus sequence: AAAAWWAMAAWWAAWH



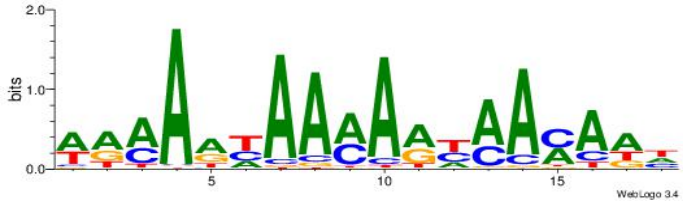
Reverse complement motif Consensus sequence: HWTTWWTTYTWWTTTT



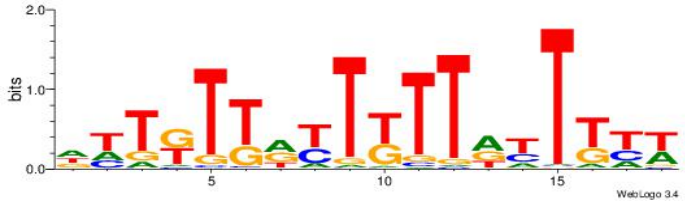
Dataset #: 1
Motif ID: 57
Motif name: C057
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 16
Similarity score: 0.0288669

Alignment:
HWTRTTMKTYTTMKTYKW
--WATTMTTTTTWTTWW

Original motif Consensus sequence: WRMARYAAMARYAAMAWH



Reverse complement motif Consensus sequence: HWTRTTMKTYTTMKTYKW

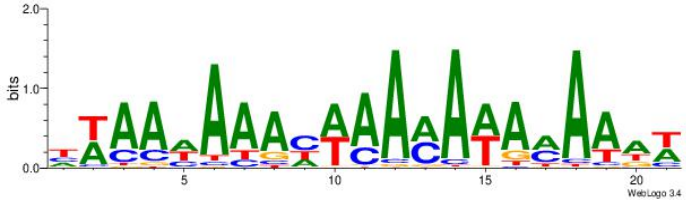


Dataset #:	1
Motif ID:	16
Motif name:	C016
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	6
Number of overlap:	16
Similarity score:	0.0348696

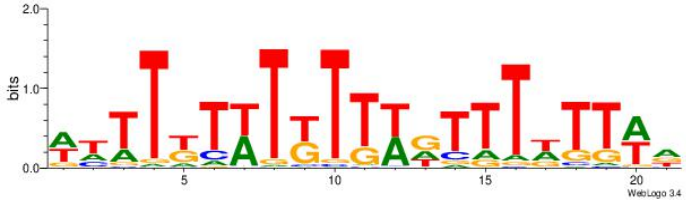
Alignment:

```
WWTTYTWTYTTWDTTTWTTWH
WATTMTTTTTTWTTWW-----
```

Original motif Consensus sequence: HWAAWAAAHWAAMAWAMAAWW

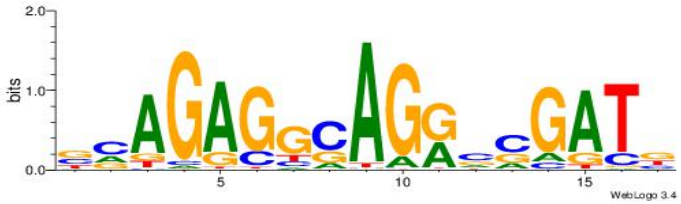


Reverse complement motif Consensus sequence: WWTTYTWTYTTWDTTTWTTWH

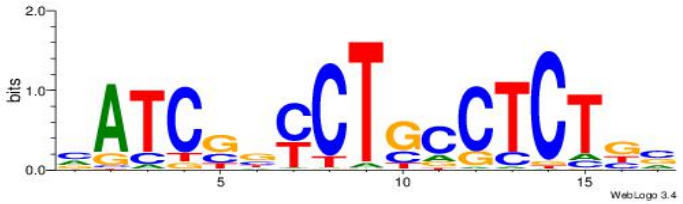


Dataset #: 1 **Motif ID: 44** **Motif name: C044**

Original motif Consensus sequence: BVAGAGGCAGRVSGATB



Reverse complement motif Consensus sequence: BATCSVMCTGCCTCTVB



Best Matches for Motif ID 44 (Highest to Lowest)

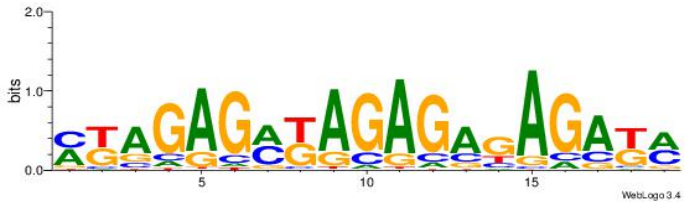
Dataset #:	1
Motif ID:	12
Motif name:	C012
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.0528812

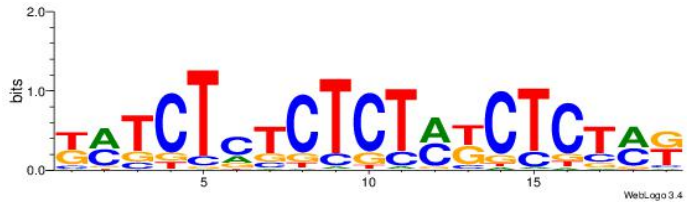
Alignment:

```
YRTCTCTCTCTRYCTCTRR
--BATCSVMCTGCCTCTVB
```

Original motif Consensus sequence: MKAGAGMKAGAGAGAGAKM

Reverse complement motif Consensus sequence: YRTCTCTCTCTRYCTCTRR

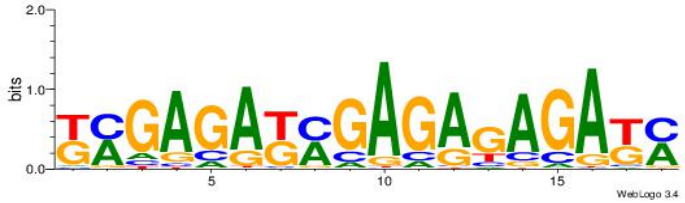




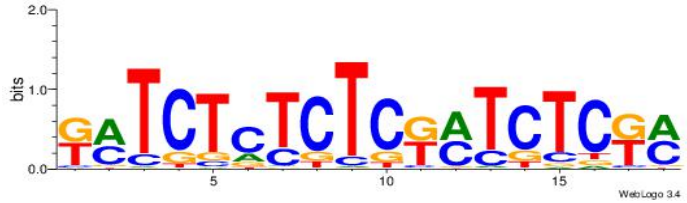
Dataset #: 1
Motif ID: 11
Motif name: C011
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 17
Similarity score: 0.0560283

Alignment:
KMGAGAKMGAGAGAGAKM
-BVAGAGGCAGRVSGATB

Original motif Consensus sequence: KMGAGAKMGAGAGAGAKM



Reverse complement motif Consensus sequence: RRTCTCTCTCRRTCTCRR



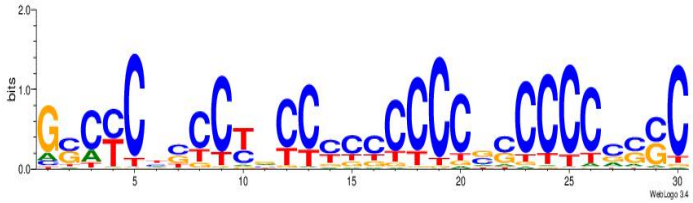
Dataset #: 1

Motif ID:	3
Motif name:	C003
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	17
Similarity score:	0.0593342

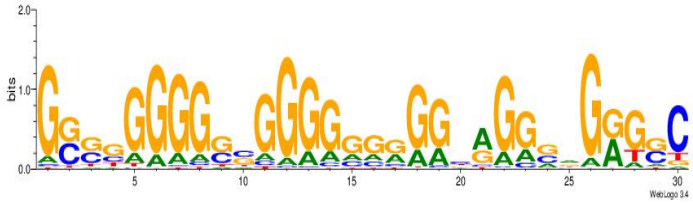
Alignment:

```
GSSGGGGGSSGGGGGGKGGVMGGSHGKGSC
-BVAGAGGCAGRVSGATB------------
```

Original motif Consensus sequence:
GSCYCHSCCYVCCYCCCCCCSSCCCCCSSC



Reverse complement motif Consensus sequence:
GSSGGGGGSSGGGGGGKGGVMGGSHGKGSC

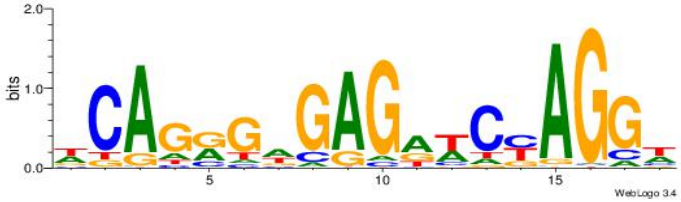


Dataset #:	1
Motif ID:	132
Motif name:	C132
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	17

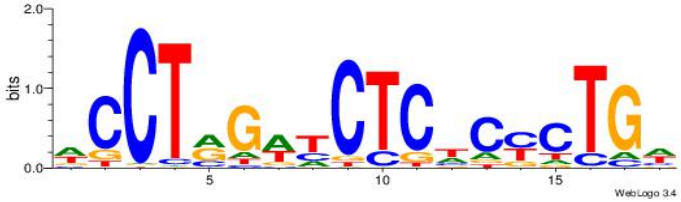
Similarity score: 0.0642688

Alignment:
WCAGRGWGAGAWCYAGGW
BVAGAGGCAGRVSGATB-

Original motif Consensus sequence: WCAGRGWGAGAWCYAGGW



Reverse complement motif Consensus sequence:
WCCTKGWTCTCWCMCTGW

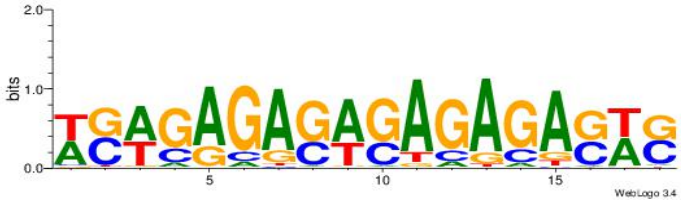


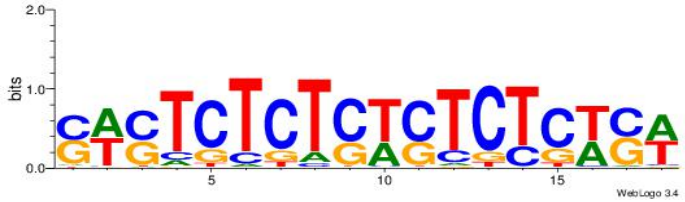
Dataset #: 1
Motif ID: 17
Motif name: C017
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 17
Similarity score: 0.0653649

Alignment:
WSWGAGASWSAGAGASWS
BVAGAGGCAGRVSGATB-

Original motif Consensus sequence: WSWGAGASWSAGAGASWS

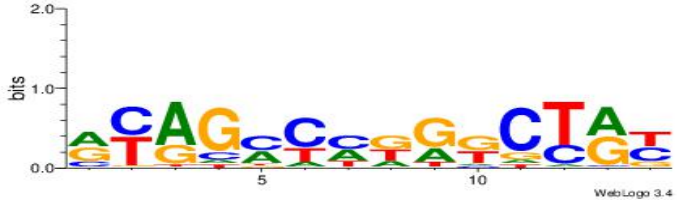
Reverse complement motif Consensus sequence:
SWSTCTCTSWSTCTCWSW



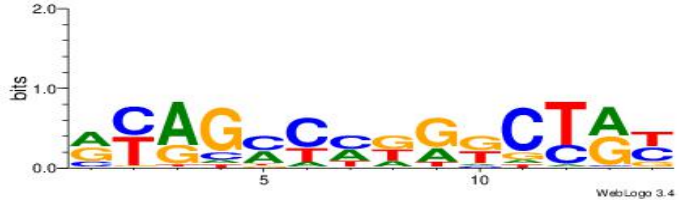


Dataset #: 1 Motif ID: 45 Motif name: C045

Original motif Consensus sequence: RYAGMCMKGKCTRY



Reverse complement motif Consensus sequence: MKAGYCYRGRCTK



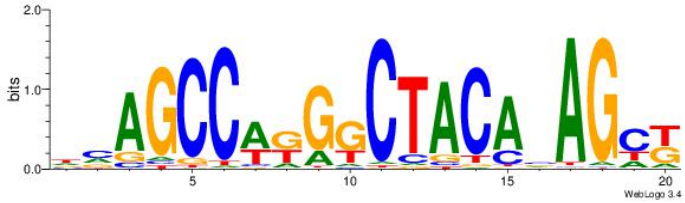
Best Matches for Motif ID 45 (Highest to Lowest)

Dataset #:	1
Motif ID:	15
Motif name:	C015
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.0138521

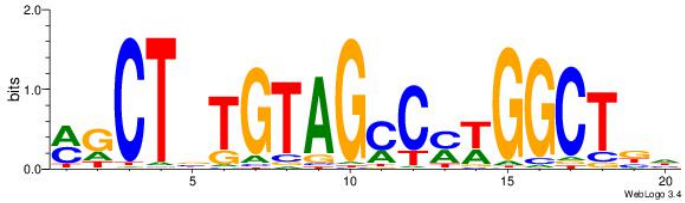
Alignment:

```
DVAGCCWKGGCTACAVAGCK
RYAGMCMKGKCTRY------
```

Original motif Consensus sequence: DVAGCCWKGGCTACAVAGCK



Reverse complement motif Consensus sequence: RGCTVTGTAGCCYWGGCTVD

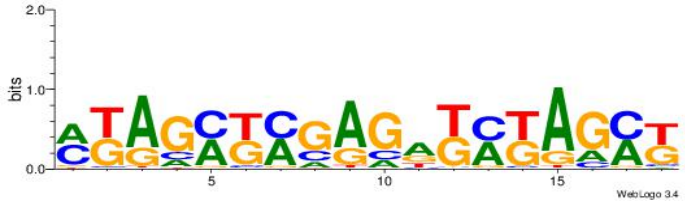


Dataset #:	1
Motif ID:	36
Motif name:	C036
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.0258669

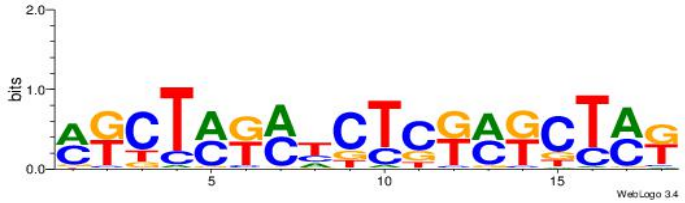
Alignment:

```
MKAGMKMGAGAKMKAGMK
----MKAGYCYRGRCTKK
```

Original motif Consensus sequence: MKAGMKMGAGAKMKAGMK



Reverse complement motif Consensus sequence: RRCTRRRTCTCRRRCTRY

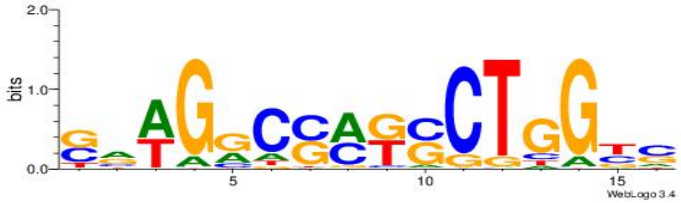


Dataset #:	1
Motif ID:	126
Motif name:	C126
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.0290459

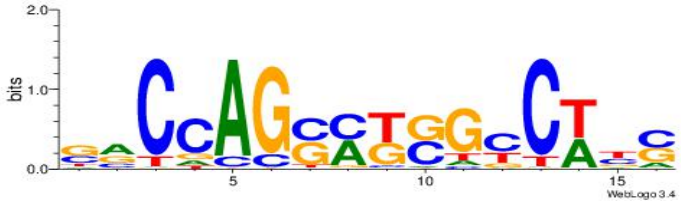
Alignment:

```
SMCCAGSYYSGMCWBS
--MKAGYCYRGRCTKK
```

Original motif Consensus sequence: SVWGRCSMKSCTGGYS



Reverse complement motif Consensus sequence: SMCCAGSYYSGMCWBS

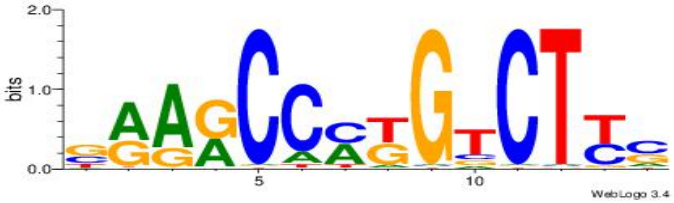


Dataset #:	1
Motif ID:	114
Motif name:	C114
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

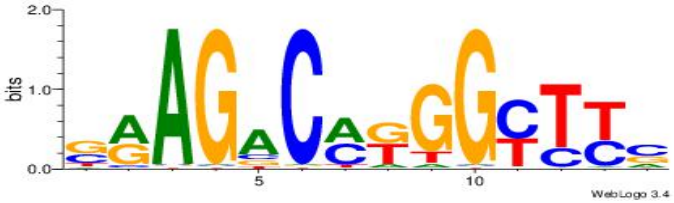
Number of overlap: 14
Similarity score: 0.0329285

Alignment:
SMAGACRRGGMTKS
RYAGMCMKGKCTRY

Original motif Consensus sequence: SRARCCMKGTCTYS



Reverse complement motif Consensus sequence: SMAGACRRGGMTK

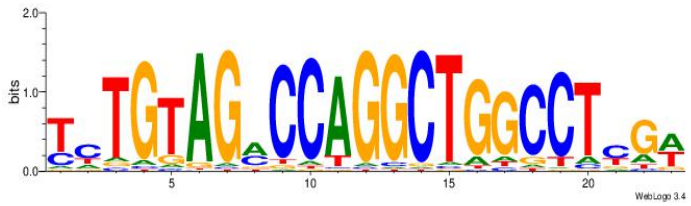


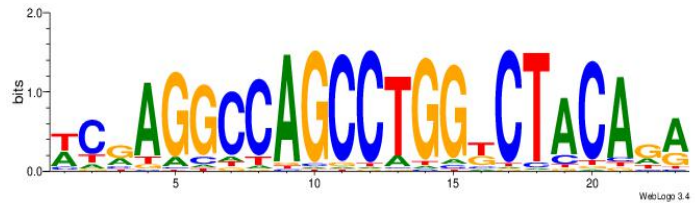
Dataset #: 1
Motif ID: 5
Motif name: C005
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 14
Similarity score: 0.0377209

Alignment:
TCTGTAGMCCAGGCTGGCCTYGW
---RYAGMCMKGKCTRY------

Original motif Consensus sequence: TCTGTAGMCCAGGCTGGCCTYGW

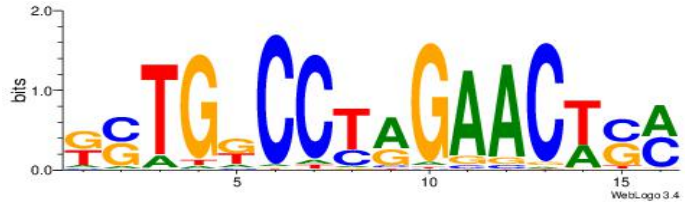
Reverse complement motif Consensus sequence: WCKAGGCCAGCCTGGYCTACAGA



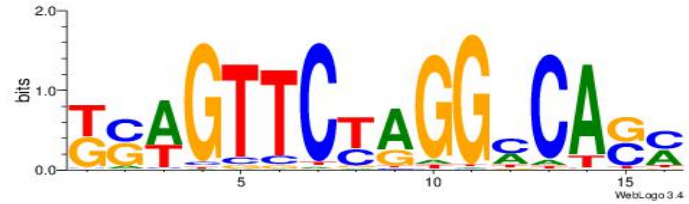


Dataset #: 1 **Motif ID: 46** **Motif name: C046**

Original motif Consensus sequence: KSTGKCCTRGAACWSM



Reverse complement motif Consensus sequence: YSWGTTCKAGGYCASY



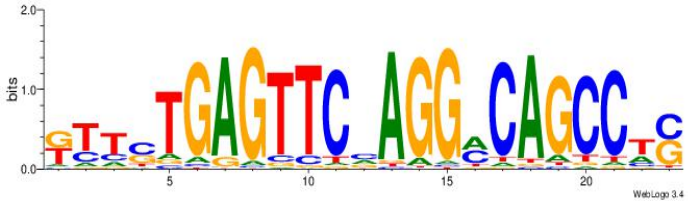
Best Matches for Motif ID 46 (Highest to Lowest)

Dataset #:	1
Motif ID:	7
Motif name:	C007
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	16
Similarity score:	0

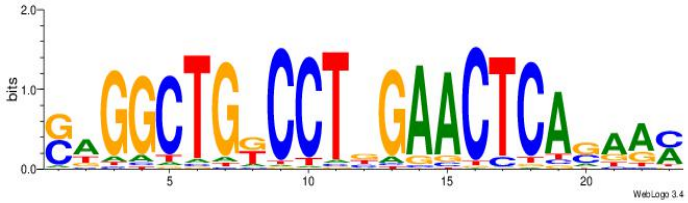
Alignment:

KTTSTGAGTTCVAGGMCAGCCTS
---YSWGTTCKAGGYCASY----

Original motif Consensus sequence: KTTSTGAGTTCVAGGMCAGCCTS



Reverse complement motif Consensus sequence: SAGGCTGYCCTVGAACTCASAAY

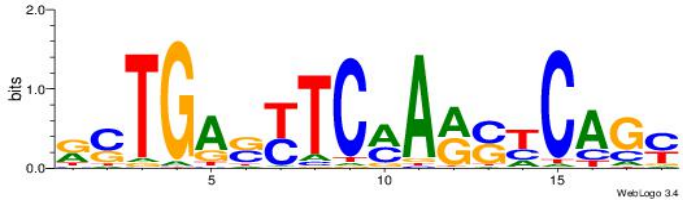


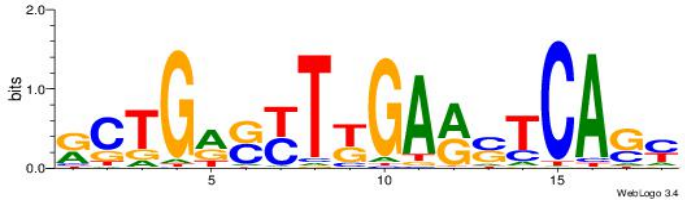
Dataset #:	1
Motif ID:	40
Motif name:	C040
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	16
Similarity score:	0.0254973

Alignment:
KCTGMSKTYGAMSTCASM
--KSTGKCCTRGAACWSM

Original motif Consensus sequence: RSTGASYTCMARSYCAGY

Reverse complement motif Consensus sequence: KCTGMSKTYGAMSTCASM



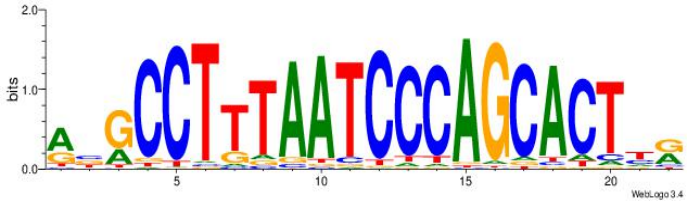


Dataset #:	1
Motif ID:	9
Motif name:	C009
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	16
Similarity score:	0.0542082

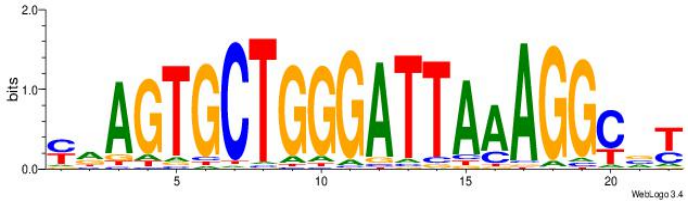
Alignment:

```
ABGCCTTTAATCCCAGCACTHR
------KSTGKCCTRGAACWSM
```

Original motif Consensus sequence: ABGCCTTTAATCCCAGCACTHR



Reverse complement motif Consensus sequence: MHAGTGCTGGGATTAAAGGCBT



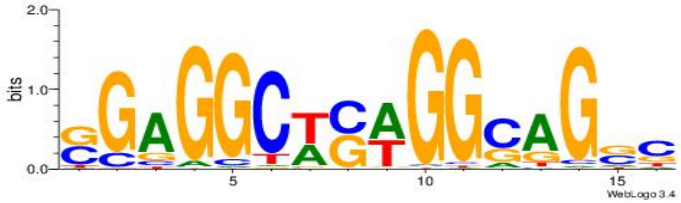
Dataset #:	1

Motif ID:	48
Motif name:	C048
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.0603648

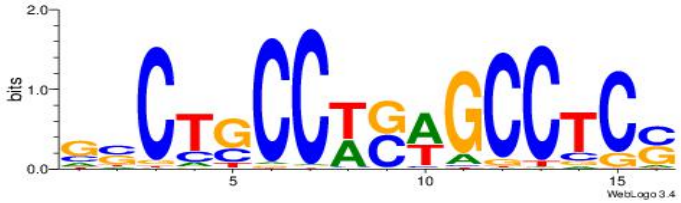
Alignment:

```
GSCTGCCWSWGCCTCS
KSTGKCCTRGAACWSM
```

Original motif Consensus sequence: SGAGGCWSWGGCAGSC



Reverse complement motif Consensus sequence: GSCTGCCWSWGCCTCS

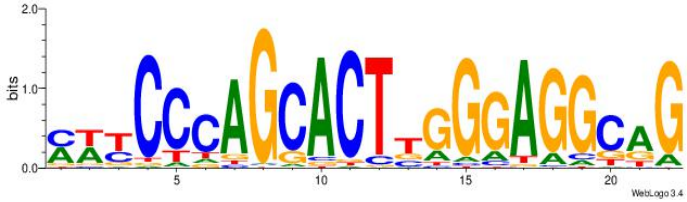


Dataset #:	1
Motif ID:	19
Motif name:	C019
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	16

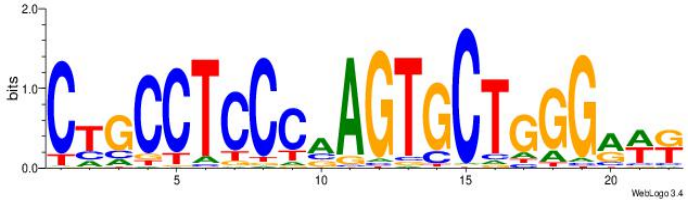
Similarity score: 0.0612865

Alignment:
CTGCCTCCCAAGTGCTGGGMWR
----KSTGKCCTRGAACWSM--

Original motif Consensus sequence: MWYCCCAGCACTTGGGAGGCAG

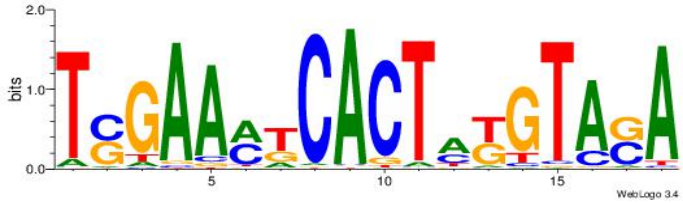


Reverse complement motif Consensus sequence: CTGCCTCCCAAGTGCTGGGMWR

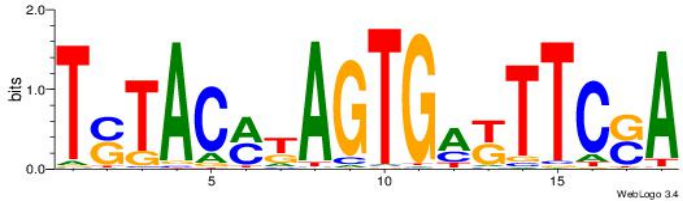


Dataset #: 1 Motif ID: 47 Motif name: C047

Original motif Consensus sequence: TSGAAMTCACTMKGTASA



Reverse complement motif Consensus sequence: TSTACRYAGTGAYTTCSA



Best Matches for Motif ID 47 (Highest to Lowest)

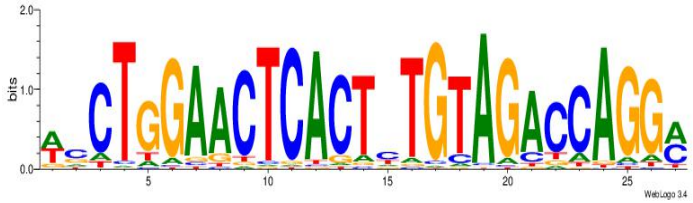
Dataset #:	1
Motif ID:	13
Motif name:	C013
Matching format of first motif:	Original Motif

Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	18
Similarity score:	0

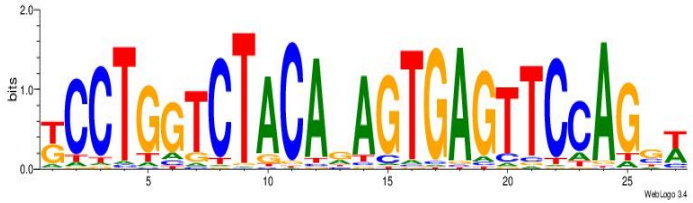
Alignment:

```
WVCTGGAACTCACTHTGTAGACCAGGM
---TSGAAMTCACTMKGTASA------
```

Original motif Consensus sequence:
WVCTGGAACTCACTHTGTAGACCAGGM



Reverse complement motif Consensus sequence:
YCCTGGTCTACADAGTGAGTTCCAGVW

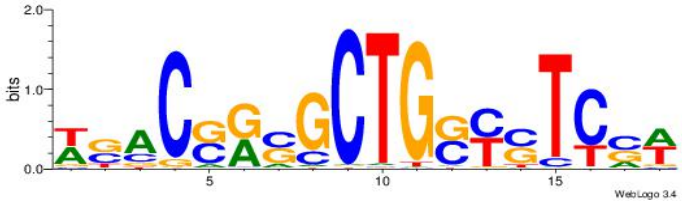


Dataset #:	1
Motif ID:	124
Motif name:	C124
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.0566388

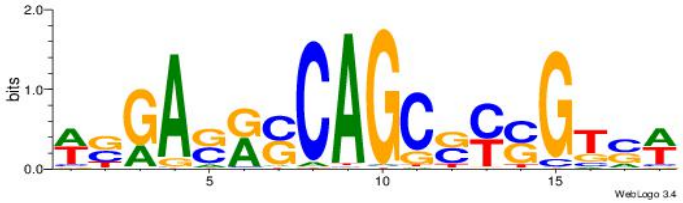
Alignment:

WSACSRSGCTGSYSTCSW
TSTACRYAGTGAYTTCSA

Original motif Consensus sequence: WSACSRSGCTGSYSTCSW



Reverse complement motif Consensus sequence: WSGASKSCAGCSMSGTSW

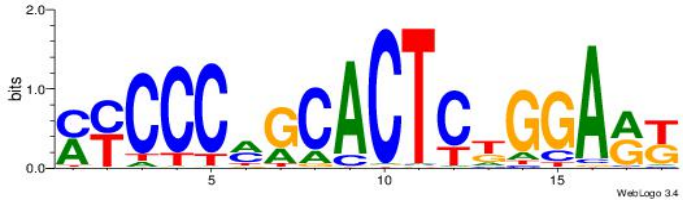


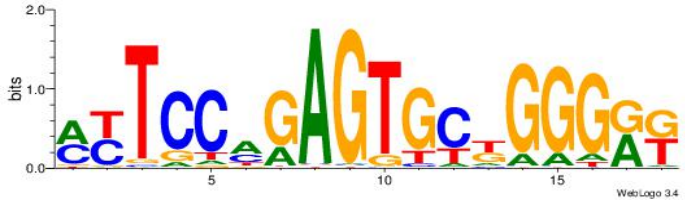
Dataset #:	1
Motif ID:	99
Motif name:	C099
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.0603351

Alignment:
RKTCCRGAGTGCYGGGKR
TSTACRYAGTGAYTTCSA

Original motif Consensus sequence: MYCCCMGCACTCKGGARK

Reverse complement motif Consensus sequence: RKTCCRGAGTGCYGGGKR



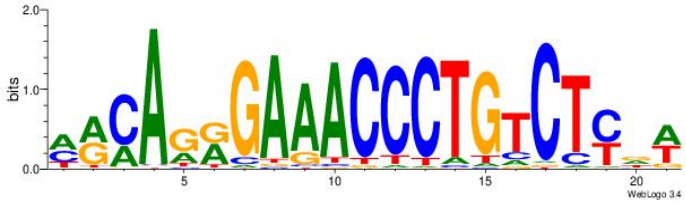


Dataset #:	1
Motif ID:	27
Motif name:	C027
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.0686391

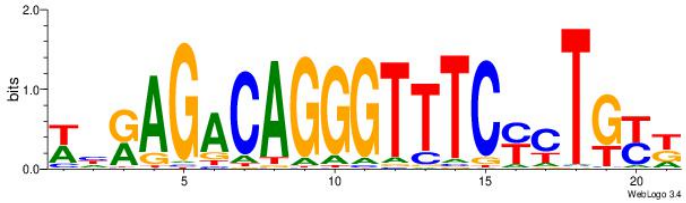
Alignment:

```
WHKAGACAGGGTTTCMCTGKY
TSTACRYAGTGAYTTCSA---
```

Original motif Consensus sequence: MRCAGRGAAACCCTGTCTYDW



Reverse complement motif Consensus sequence: WHKAGACAGGGTTTCMCTGKY



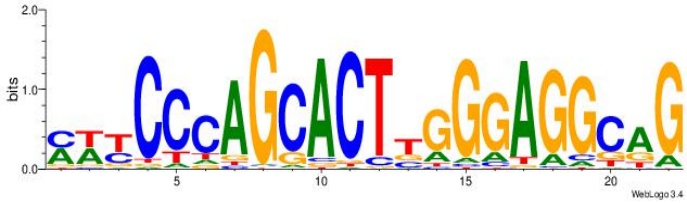
Dataset #:	1

Motif ID:	19
Motif name:	C019
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	18
Similarity score:	0.0699568

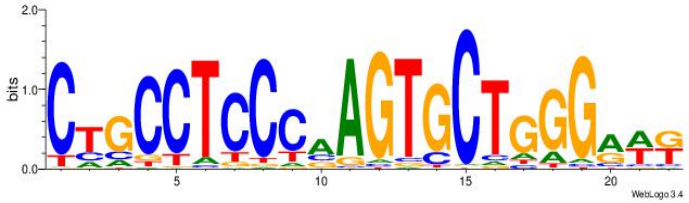
Alignment:

```
MWYCCCAGCACTTGGGAGGCAG
-TSGAAMTCACTMKGTASA---
```

Original motif Consensus sequence: MWYCCCAGCACTTGGGAGGCAG

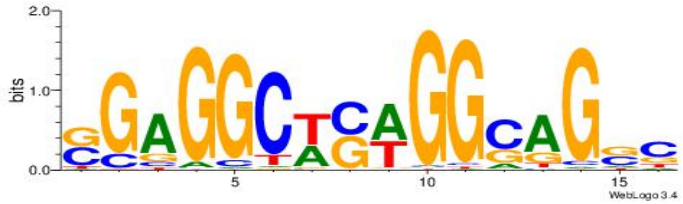


Reverse complement motif Consensus sequence: CTGCCTCCCAAGTGCTGGGMWR

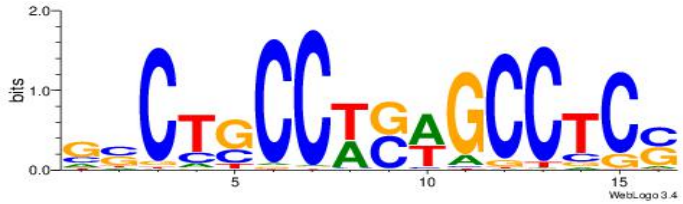


Dataset #: 1 Motif ID: 48 Motif name: C048

Original motif Consensus sequence: SGAGGCWSWGGCAGSC



Reverse complement motif Consensus sequence: GSCTGCCWSWGCCTCS



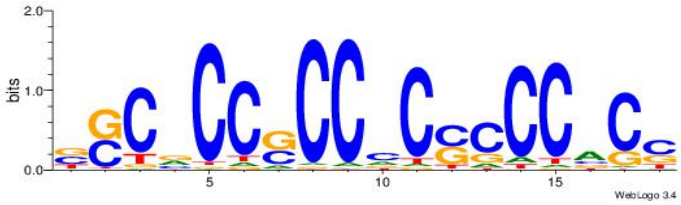
Best Matches for Motif ID 48 (Highest to Lowest)

Dataset #:	1
Motif ID:	20
Motif name:	C020
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.0377625

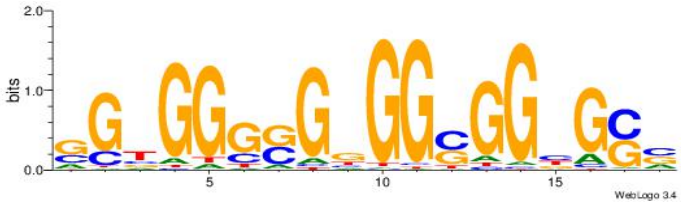
Alignment:

```
BSCVCCSCCVCSCCCACS
GSCTGCCWSWGCCTCS--
```

Original motif Consensus sequence: BSCVCCSCCVCSCCCACS



Reverse complement motif Consensus sequence: SGTGGGSGVGGSGGVGSB

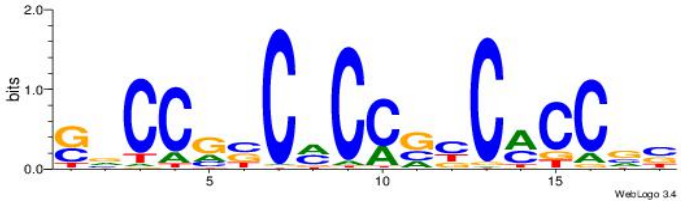


Dataset #:	1
Motif ID:	37
Motif name:	C037
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif

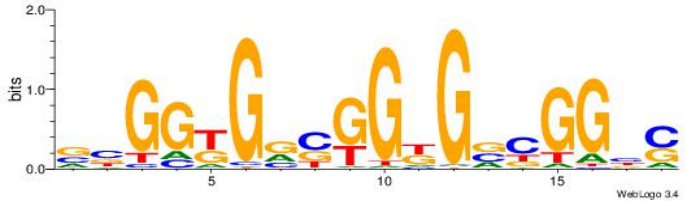
Direction:	Forward
Position number:	3
Number of overlap:	16
Similarity score:	0.0430637

Alignment:
SVCCGBCMCCSYCMCCVB
--GSCTGCCWSWGCCTCS

Original motif Consensus sequence: SVCCGBCMCCSYCMCCVB



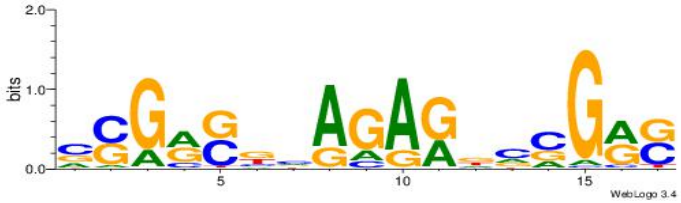
Reverse complement motif Consensus sequence: BVGGYGKSGGYGBCGGVS



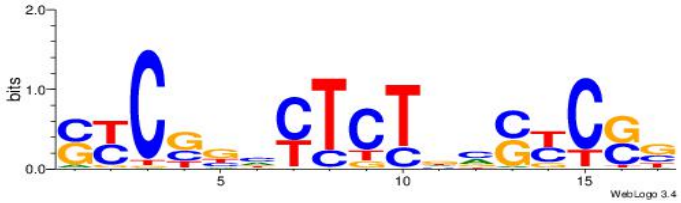
Dataset #:	1
Motif ID:	85
Motif name:	C085
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	16
Similarity score:	0.0452719

Alignment:
VSGRSBHAGARDVSGRS
-SGAGGCWSWGGCAGSC

Original motif Consensus sequence: VSGRSBHAGARDVSGRS



Reverse complement motif Consensus sequence: SKCSVHMTCTDBSKCSV

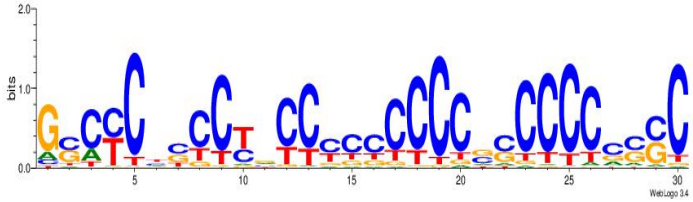


Dataset #:	1
Motif ID:	3
Motif name:	C003
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	16
Similarity score:	0.0453102

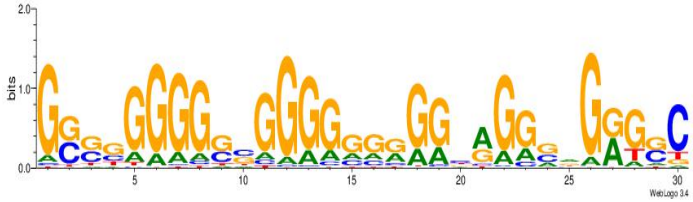
Alignment:

```
GSCYCHSCCYVCCYCCCCCCSSCCCCCSSC
--------GSCTGCCWSWGCCTCS------
```

Original motif Consensus sequence: GSCYCHSCCYVCCYCCCCCCSSCCCCCSSC



Reverse complement motif Consensus sequence: GSSGGGGGSSGGGGGGKGGVMGGSHGKGSC

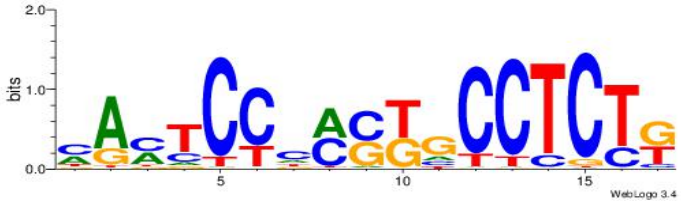


Dataset #:	1
Motif ID:	66
Motif name:	C066
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	16
Similarity score:	0.0464071

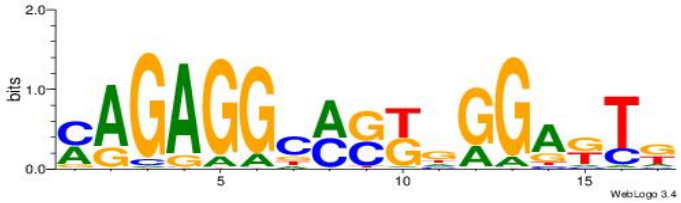
Alignment:

```
MAMTCCCMSKGCCTCTK
GSCTGCCWSWGCCTCS-
```

Original motif Consensus sequence: MAMTCCCMSKGCCTCTK



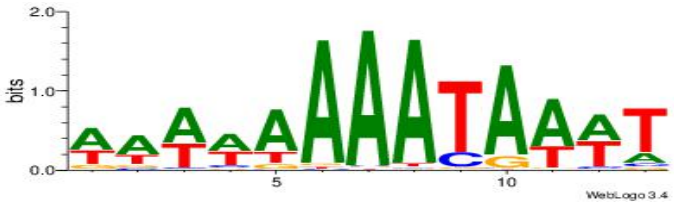
Reverse complement motif Consensus sequence: YAGAGGCRSYGGGARTR

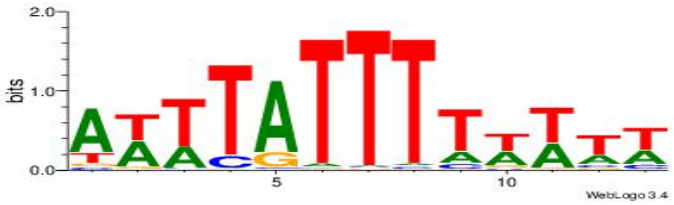


Dataset #: 1 Motif ID: 49 Motif name: C049

Original motif Consensus sequence: WAWWAAAATAAWT

Reverse complement motif Consensus sequence: AWTTATTTTWWTW





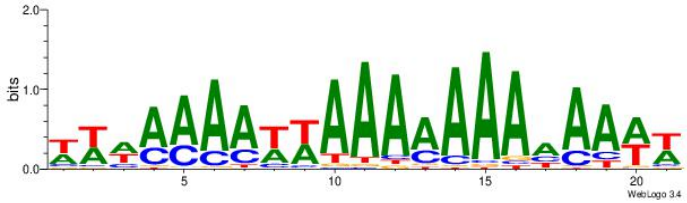
Best Matches for Motif ID 49 (Highest to Lowest)

Dataset #:	1
Motif ID:	10
Motif name:	C010
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.0183622

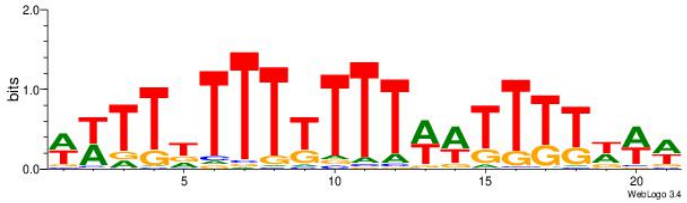
Alignment:

```
WWTTTTTTTTTTWWTTTTWWW
AWTTATTTTWWTW--------
```

Original motif Consensus sequence: WWWAAAAWWAAAAAAAAAWW



Reverse complement motif Consensus sequence: WWTTTTTTTTTTWWTTTTWWW

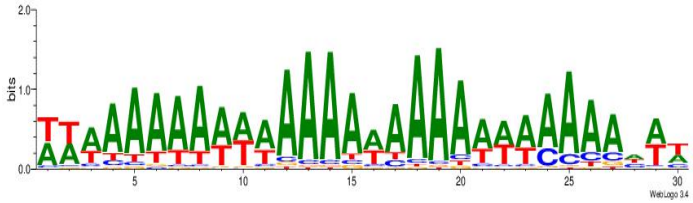


Dataset #:	1
Motif ID:	1
Motif name:	C001
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	13
Similarity score:	0.0229227

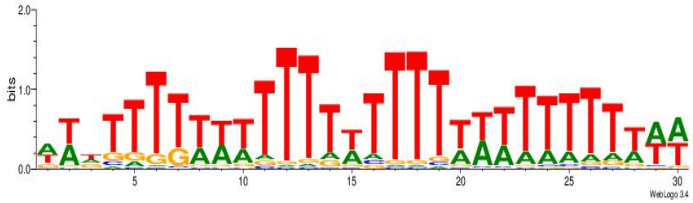
Alignment:

```
WWHTTTTWWTTTTTWTTTTTWWTTTTTWWW
----------AWTTATTTTWWTW-------
```

Original motif Consensus sequence:
WWWAAAAAWWAAAAAWAAAAAWWAAAAHWW



Reverse complement motif Consensus sequence:
WWHTTTTWWTTTTTWTTTTTWWTTTTTWWW

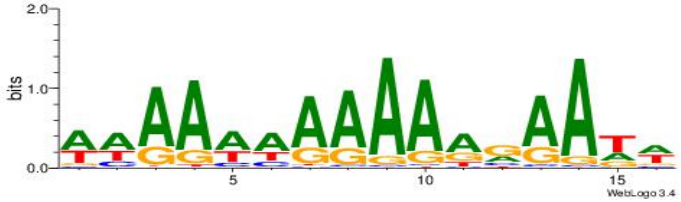


Dataset #:	1
Motif ID:	43
Motif name:	C043
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4

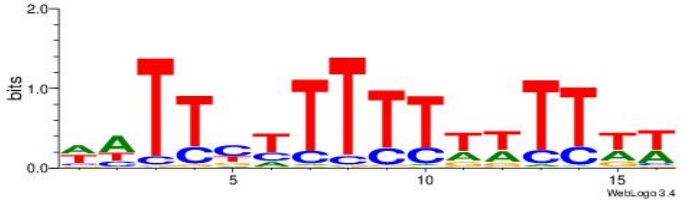
Number of overlap: 13
Similarity score: 0.0257709

Alignment:
WATTMTTTTTTWTTWW
AWTTATTTTWWTW---

Original motif Consensus sequence: WWAAWAAAAAARAATW



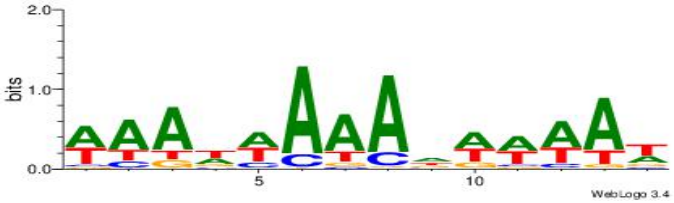
Reverse complement motif Consensus sequence: WATTMTTTTTTWTTWW



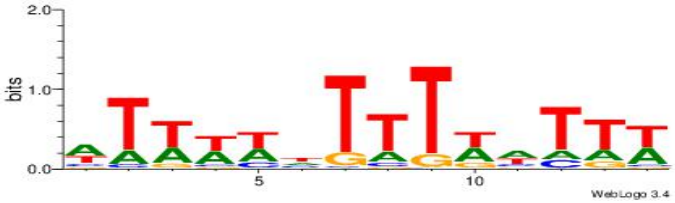
Dataset #: 1
Motif ID: 90
Motif name: C090
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 13
Similarity score: 0.0285191

Alignment:
WTWWWDTTTWWTTW
-AWTTATTTTWWTW

Original motif Consensus sequence: WAAWWAAADWWWAW



Reverse complement motif Consensus sequence: WTWWWDTTTWWTTW



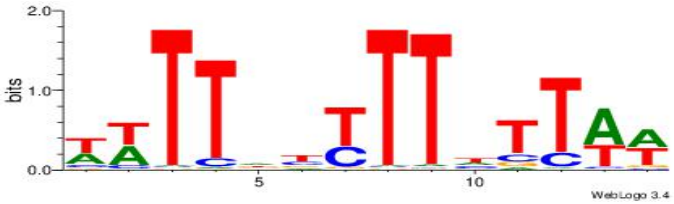
Dataset #:	1
Motif ID:	131
Motif name:	C131
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.0290134

Alignment:

```
WWAADAARVHAAWW
-WAWWAAAATAAWT
```

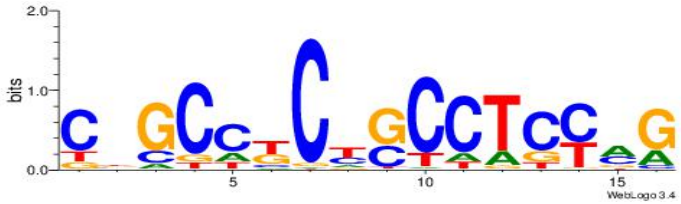
Original motif Consensus sequence: WWAADAARVHAAWW

Reverse complement motif Consensus sequence: WWTTHBKTTDTTW

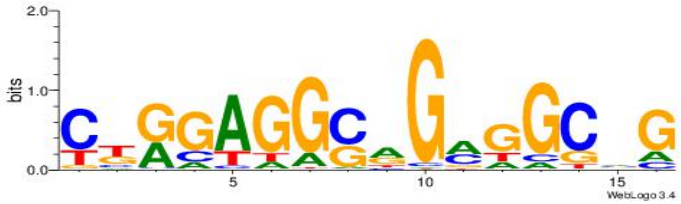


Dataset #: 1 **Motif ID: 50** **Motif name: C050**

Original motif Consensus sequence: CBGCCKCYSCCTCYMG



Reverse complement motif Consensus sequence: CYKGAGGSMGRGGCVG



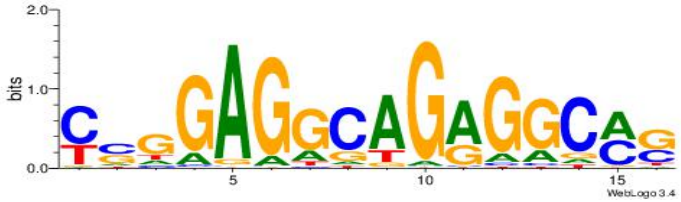
Best Matches for Motif ID 50 (Highest to Lowest)

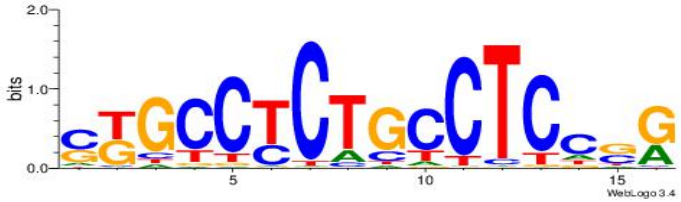
Dataset #:	1
Motif ID:	14
Motif name:	C014
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.0103992

Alignment:
YSGGAGGCAGAGGCMS
CYKGAGGSMGRGGCVG

Original motif Consensus sequence: YSGGAGGCAGAGGCMS

Reverse complement motif Consensus sequence: SYGCCTCTGCCTCCSK



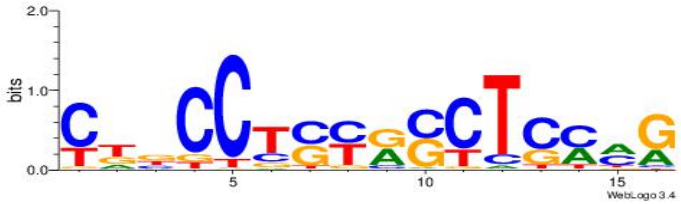


Dataset #:	1
Motif ID:	83
Motif name:	C083
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	16
Similarity score:	0.0119507

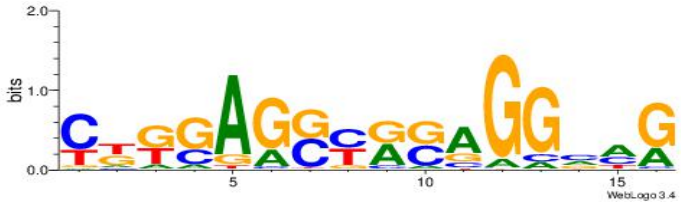
Alignment:

```
CKBCCTSYRSCTCMMG
CBGCCKCYSCCTCYMG
```

Original motif Consensus sequence: CKBCCTSYRSCTCMMG



Reverse complement motif Consensus sequence: CYRGAGSMKSAGGBRG



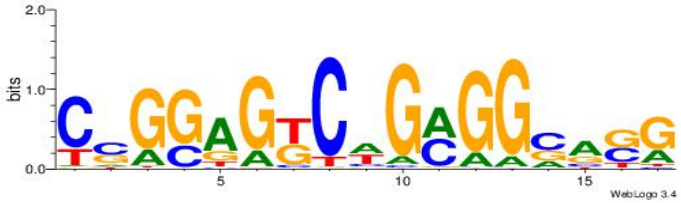
Dataset #:	1

Motif ID:	86
Motif name:	C086
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	16
Similarity score:	0.0161878

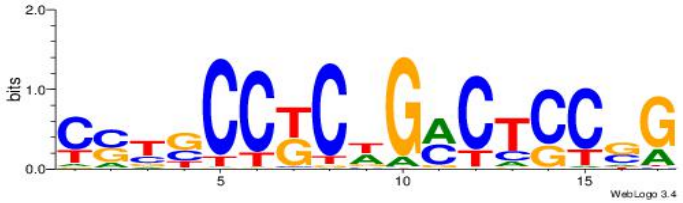
Alignment:

```
CSGGAGKCWGMGGSASG
CYKGAGGSMGRGGCVG-
```

Original motif Consensus sequence: CSGGAGKCWGMGGSASG



Reverse complement motif Consensus sequence: CSTSCCYCWGRCTCCSG

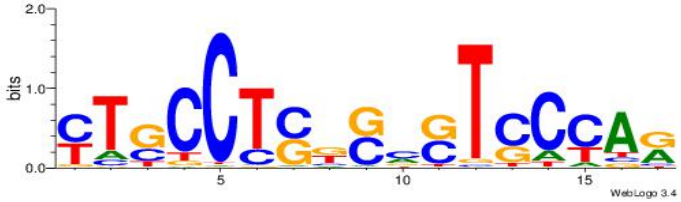


Dataset #:	1
Motif ID:	101
Motif name:	C101
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	16

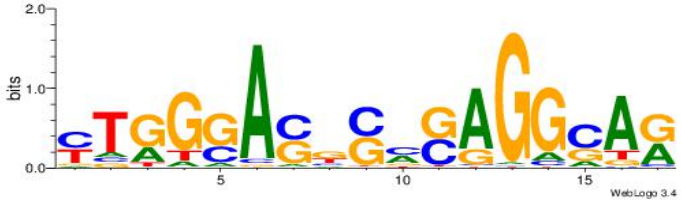
Similarity score: 0.0346088

Alignment:
YTSCCTSKSVSTCCCAR
CBGCCKCYSCCTCYMG-

Original motif Consensus sequence: YTSCCTSKSVSTCCCAR



Reverse complement motif Consensus sequence: MTGGGASVSYSAGGSAK

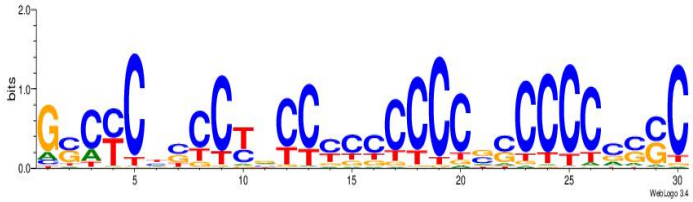


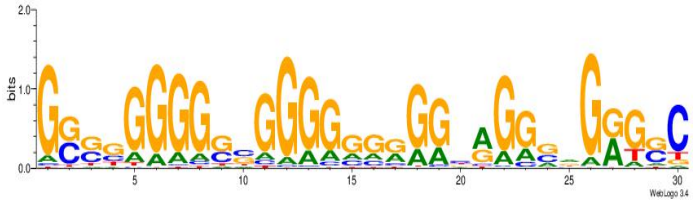
Dataset #: 1
Motif ID: 3
Motif name: C003
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 16
Similarity score: 0.0359906

Alignment:
GSSGGGGGSSGGGGGGKGGVMGGSHGKGSC
-CYKGAGGSMGRGGCVG----------

Original motif Consensus sequence:
GSCYCHSCCYVCCYCCCCCCSSCCCCCSSC

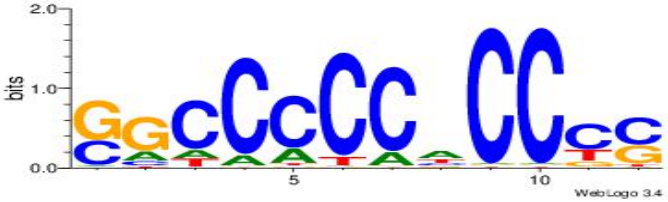
Reverse complement motif Consensus sequence:
GSSGGGGGSSGGGGGGKGGVMGGSHGKGSC



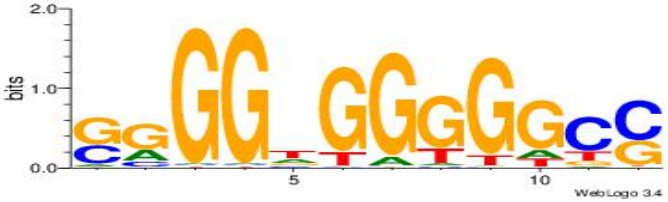


Dataset #: 1 **Motif ID: 51** **Motif name: C051**

Original motif Consensus sequence: SGCCCCCHCCCS



Reverse complement motif Consensus sequence: SGGGHGGGGGCS



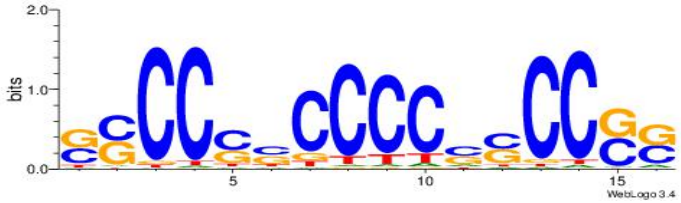
Best Matches for Motif ID 51 (Highest to Lowest)

Dataset #:	1
Motif ID:	8
Motif name:	C008
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.0144805

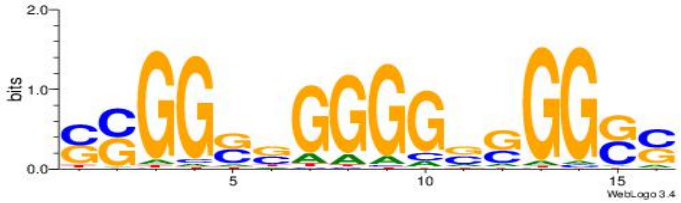
Alignment:

```
SSCCSSCCCCSSCCSS
----SGCCCCCHCCCS
```

Original motif Consensus sequence: SSCCSSCCCCSSCCSS



Reverse complement motif Consensus sequence: SSGGSSGGGGSSGGSS

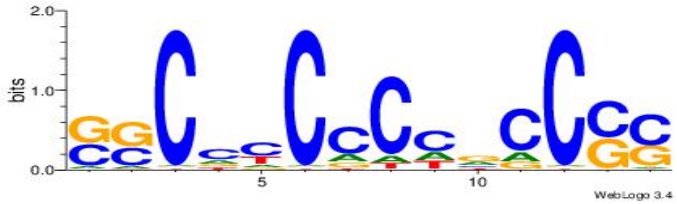


Dataset #:	1
Motif ID:	104
Motif name:	C104
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	12
Similarity score:	0.0155693

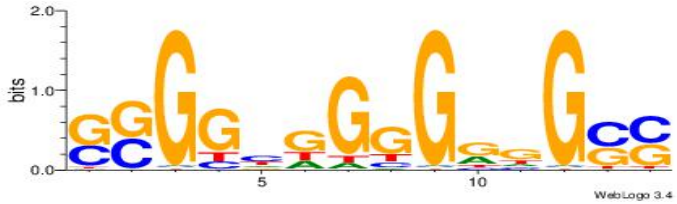
Alignment:

```
SSCCYCCCCDCCSS
--SGCCCCCHCCCS
```

Original motif Consensus sequence: SSCCYCCCCDCCSS



Reverse complement motif Consensus sequence: SSGGHGGGGKGG

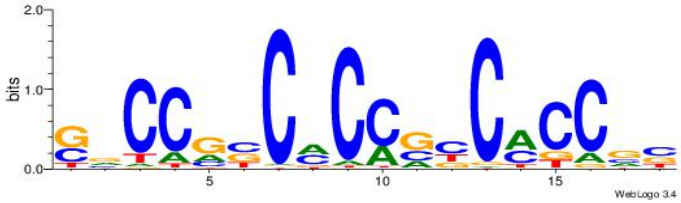


Dataset #:	1
Motif ID:	37
Motif name:	C037
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.0205815

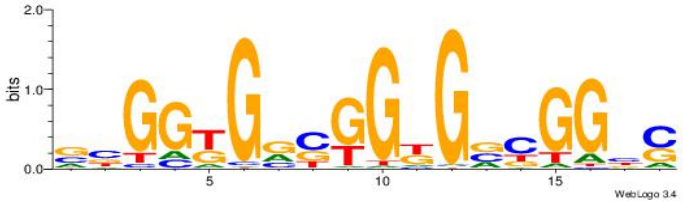
Alignment:

```
SVCCGBCMCCSYCMCCVB
SGCCCCCHCCCS------
```

Original motif Consensus sequence: SVCCGBCMCCSYCMCCVB



Reverse complement motif Consensus sequence: BVGGYGKSGGYGBCGGVS

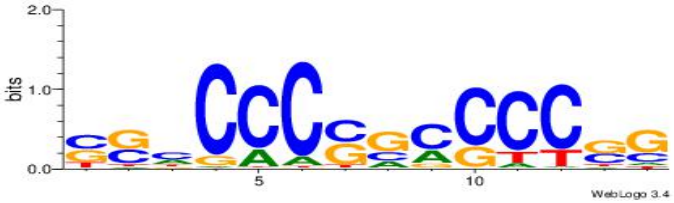


Dataset #:	1
Motif ID:	94
Motif name:	C094
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3

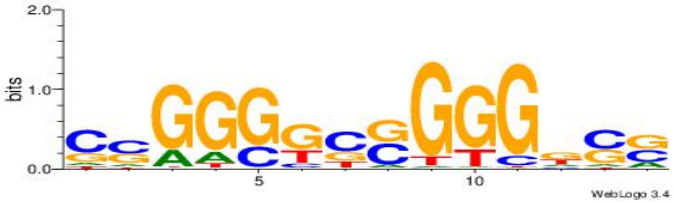
Number of overlap: 12
Similarity score: 0.0236035

Alignment:
CSGGGGCSGGGDSS
--SGGGHGGGGGCS

Original motif Consensus sequence: SSHCCCSGCCCCSG



Reverse complement motif Consensus sequence: CSGGGGCSGGGD

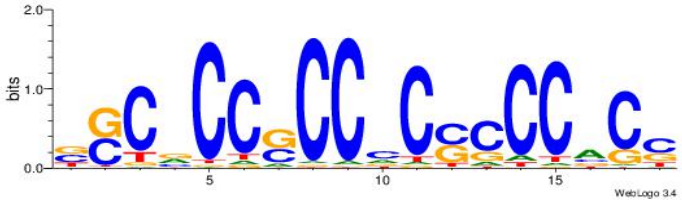


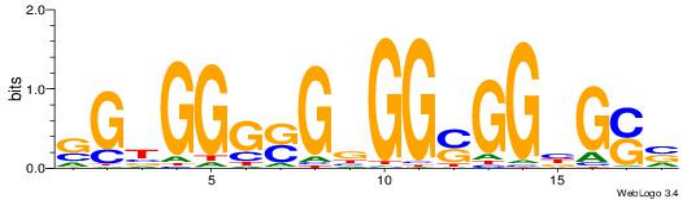
Dataset #: 1
Motif ID: 20
Motif name: C020
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 6
Number of overlap: 12
Similarity score: 0.0237251

Alignment:
SGTGGGSGVGGSGGVGSB
-SGGGHGGGGGCS-----

Original motif Consensus sequence: BSCVCCSCCVCSCCCACS

Reverse complement motif Consensus sequence: SGTGGGSGVGGSGGVGSB

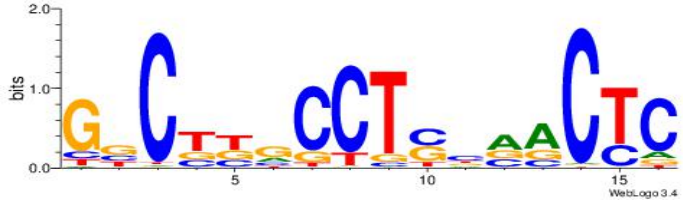




Dataset #: 1 **Motif ID: 52** **Motif name: C052**

Original motif Consensus sequence: GAGTBVSAGGCMAGVC

Reverse complement motif Consensus sequence: GVCTYGCCTSVVACTC



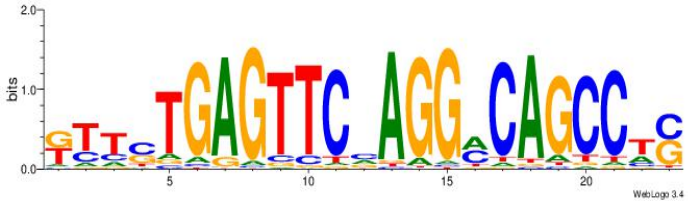
Best Matches for Motif ID 52 (Highest to Lowest)

Dataset #:	1
Motif ID:	7
Motif name:	C007
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	16
Similarity score:	0.0160562

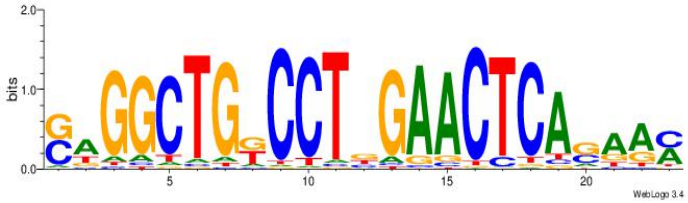
Alignment:

KTTSTGAGTTCVAGGMCAGCCTS
-----GAGTBVSAGGCMAGVC--

Original motif Consensus sequence: KTTSTGAGTTCVAGGMCAGCCTS



Reverse complement motif Consensus sequence: SAGGCTGYCCTVGAACTCASAAY

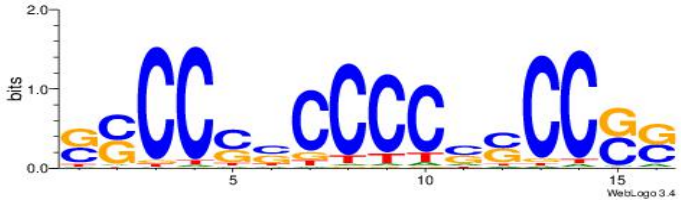


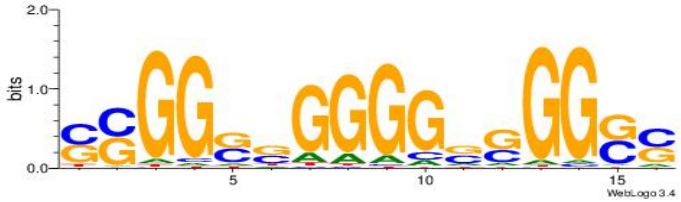
Dataset #:	1
Motif ID:	8
Motif name:	C008
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	16
Similarity score:	0.0404907

Alignment:
SSGGSSGGGGSSGGSS
GAGTBVSAGGCMAGVC

Original motif Consensus sequence: SSCCSSCCCCSSCCSS

Reverse complement motif Consensus sequence: SSGGSSGGGGSSGGSS



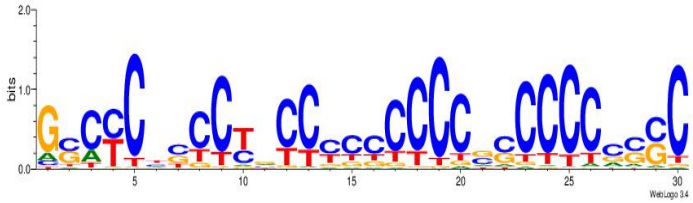


Dataset #:	1
Motif ID:	3
Motif name:	C003
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	16
Similarity score:	0.0415476

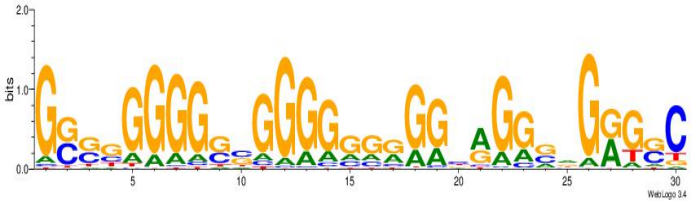
Alignment:

```
GSCYCHSCCYVCCYCCCCCCSSCCCCCSSC
-------------GVCTYGCCTSVVACTC-
```

Original motif Consensus sequence:
GSCYCHSCCYVCCYCCCCCCSSCCCCCSSC



Reverse complement motif Consensus sequence:
GSSGGGGGSSGGGGGGKGGVMGGSHGKGSC



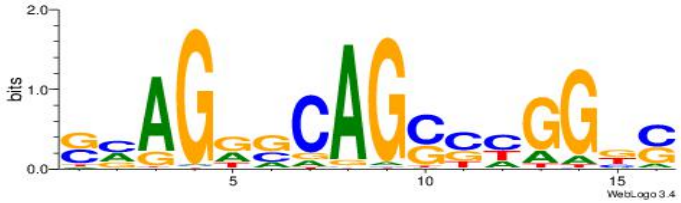
Dataset #:	1

Motif ID:	39
Motif name:	C039
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.0450105

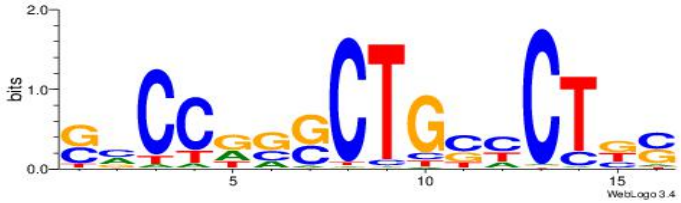
Alignment:

```
SMAGRSCAGSSYGGBS
GAGTBVSAGGCMAGVC
```

Original motif Consensus sequence: SMAGRSCAGSSYGGBS



Reverse complement motif Consensus sequence: SBCCKSSCTGSMCTRS

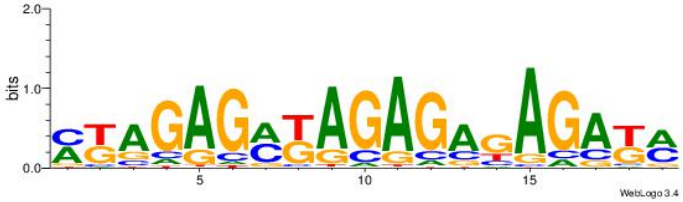


Dataset #:	1
Motif ID:	12
Motif name:	C012
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	16

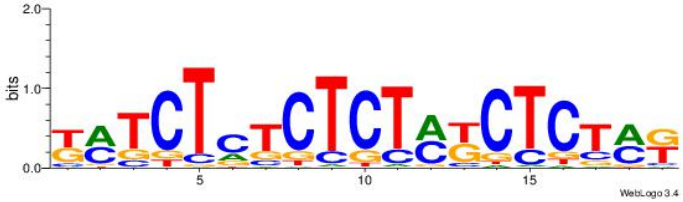
Similarity score: 0.0456684

Alignment:
MKAGAGMKAGAGAGAGAKM
---GAGTBVSAGGCMAGVC

Original motif Consensus sequence: MKAGAGMKAGAGAGAGAKM

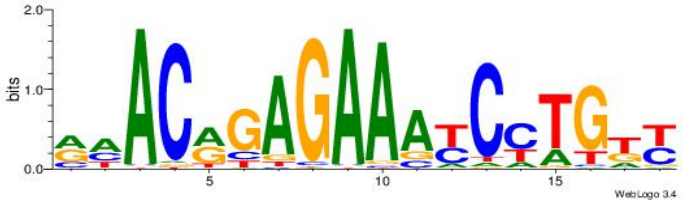


Reverse complement motif Consensus sequence: YRTCTCTCTCTRYCTCTRR

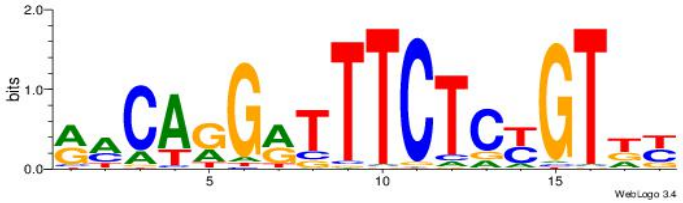


Dataset #: 1 Motif ID: 53 Motif name: C053

Original motif Consensus sequence: RMACRGAGAAAYCCTGKY



Reverse complement motif Consensus sequence: MRCAGGMTTTCTCKGTYK



Best Matches for Motif ID 53 (Highest to Lowest)

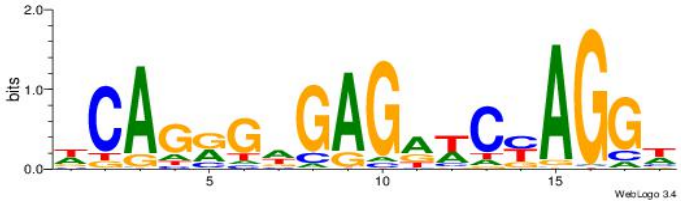
Dataset #:	1
Motif ID:	132
Motif name:	C132
Matching format of first motif:	Original Motif

Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.0360527

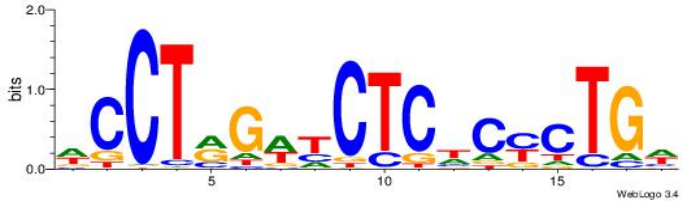
Alignment:

```
WCAGRGWGAGAWCYAGGW
RMACRGAGAAAYCCTGKY
```

Original motif Consensus sequence: WCAGRGWGAGAWCYAGGW



Reverse complement motif Consensus sequence: WCCTKGWTCTCWCMCTGW

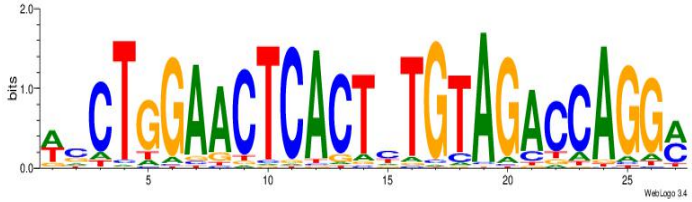


Dataset #:	1
Motif ID:	13
Motif name:	C013
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.0481145

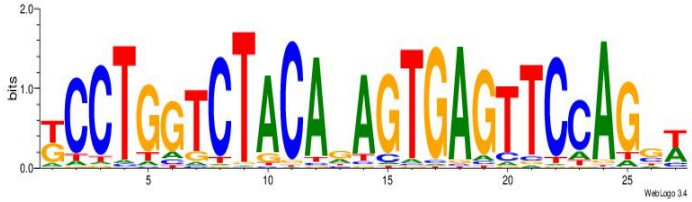
Alignment:

WVCTGGAACTCACTHTGTAGACCAGGM
---------MRCAGGMTTTCTCKGTYK

Original motif Consensus sequence:
WVCTGGAACTCACTHTGTAGACCAGGM



Reverse complement motif Consensus sequence:
YCCTGGTCTACADAGTGAGTTCCAGVW

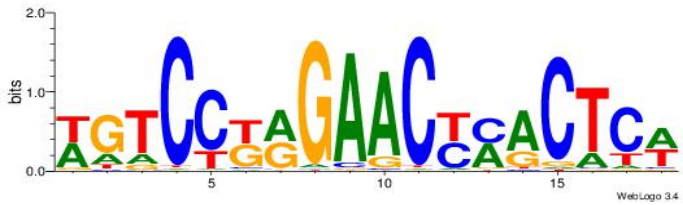


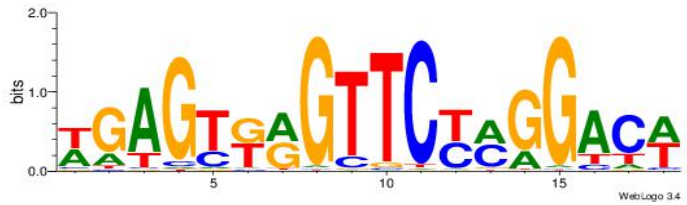
Dataset #:	1
Motif ID:	42
Motif name:	C042
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.0514739

Alignment:
WGAGTRMGTTCKRGGACW
MRCAGGMTTTCTCKGTYK

Original motif Consensus sequence: WGTCCKRGAACYMACTCW

Reverse complement motif Consensus sequence:
WGAGTRMGTTCKRGGACW



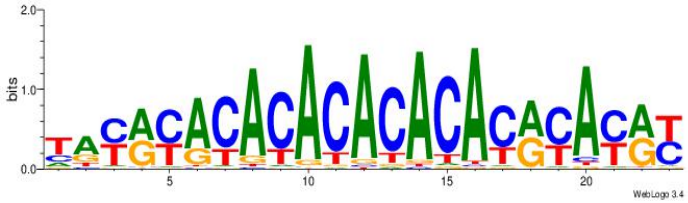


Dataset #:	1
Motif ID:	2
Motif name:	C002
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	18
Similarity score:	0.051665

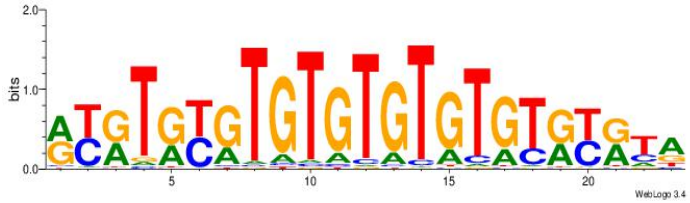
Alignment:

```
TAYRYACACACACACACRYAYRY
-----RMACRGAGAAAYCCTGKY
```

Original motif Consensus sequence: TAYRYACACACACACACRYAYRY



Reverse complement motif Consensus sequence: MKKTKKGTGTGTGTGTGTKKKTA



Dataset #:	1

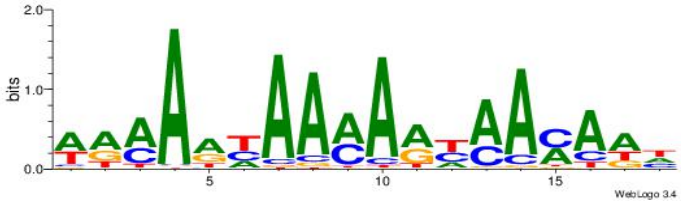
Motif ID:	57
Motif name:	C057
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.0535024

Alignment:

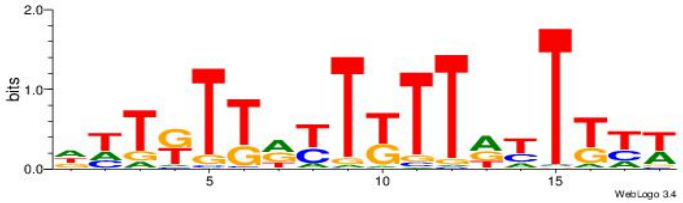
HWTRTTMKTYTTMKTYKW

MRCAGGMTTTCTCKGTYK

Original motif Consensus sequence: WRMARYAAMARYAAMAWH

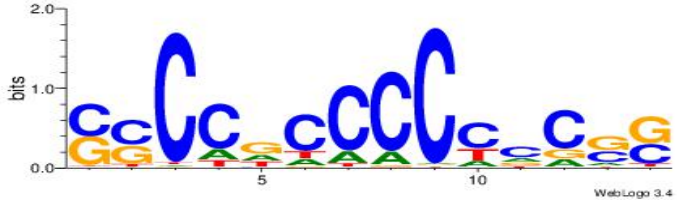


Reverse complement motif Consensus sequence: HWTRTTMKTYTTMKTYKW



Dataset #: 1 Motif ID: 54 Motif name: C054

Original motif Consensus sequence: SSCCDCCCCCCCSS



Reverse complement motif Consensus sequence: SSGGGGGGGHGG

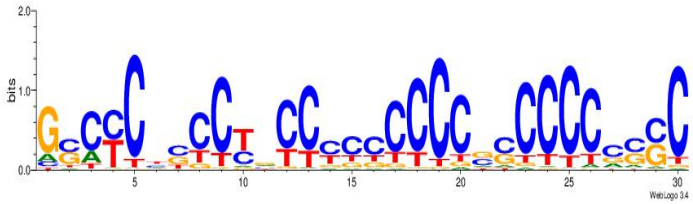
Best Matches for Motif ID 54 (Highest to Lowest)

Dataset #:	1
Motif ID:	3
Motif name:	C003
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.010752

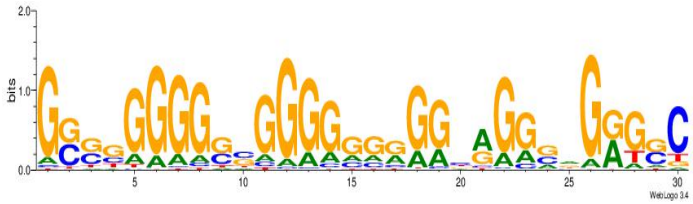
Alignment:

```
GSSGGGGGSSGGGGGGKGGVMGGSHGKGSC
SSGGGGGGGHGGSS----------------
```

Original motif Consensus sequence:
GSCYCHSCCYVCCYCCCCCCSSCCCCCSSC



Reverse complement motif Consensus sequence:
GSSGGGGGSSGGGGGGKGGVMGGSHGKGSC

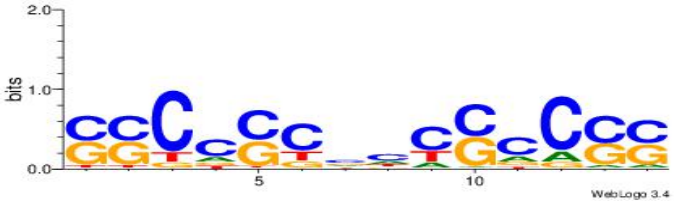


Dataset #:	1
Motif ID:	23
Motif name:	C023
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif

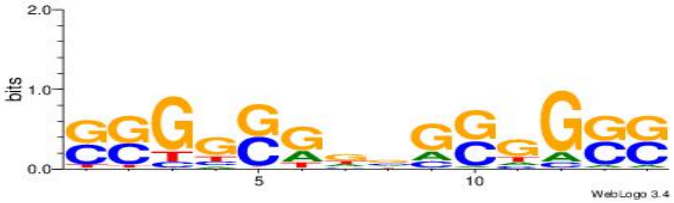
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.0108829

Alignment:
SSCCSCBHCSCCSS
SSCCDCCCCCCCSS

Original motif Consensus sequence: SSCCSCBHCSCCSS



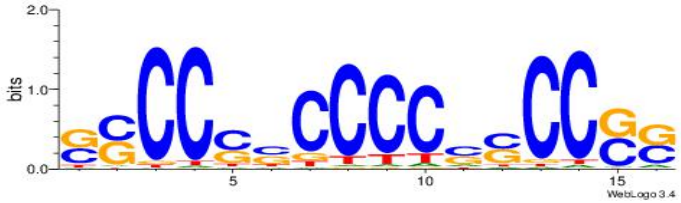
Reverse complement motif Consensus sequence: SSGGSGDBGSGGS



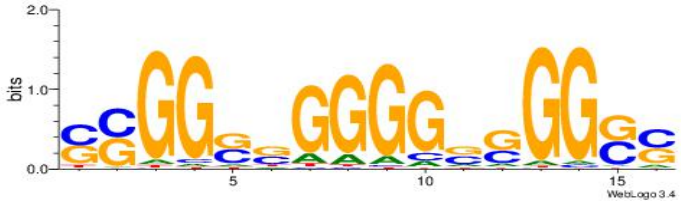
Dataset #:	1
Motif ID:	8
Motif name:	C008
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.0123397

Alignment:
SSCCSSCCCCSSCCSS
-SSCCDCCCCCCCSS-

Original motif Consensus sequence: SSCCSSCCCCSSCCSS



Reverse complement motif Consensus sequence: SSGGSSGGGGSSGGSS



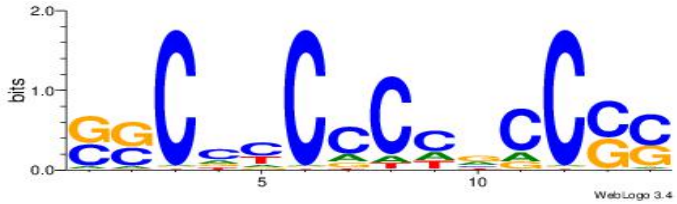
Dataset #:	1
Motif ID:	104
Motif name:	C104
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.0155505

Alignment:

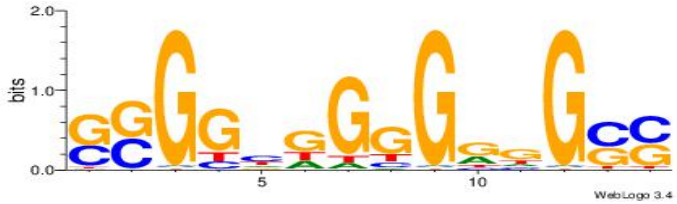
SSGGHGGGGKGGSS

SSGGGGGGGHGGSS

Original motif Consensus sequence: SSCCYCCCCDCCSS



Reverse complement motif Consensus sequence: SSGGHGGGGKGG

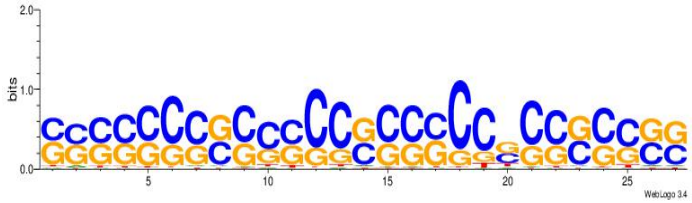


Dataset #:	1
Motif ID:	4
Motif name:	C004
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5
Number of overlap:	14
Similarity score:	0.0155642

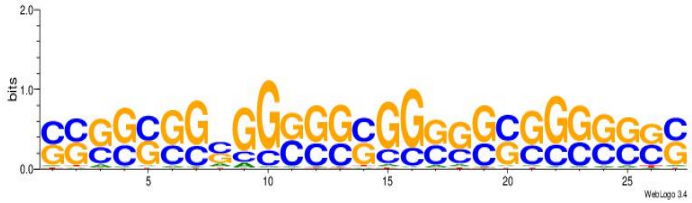
Alignment:

```
SSSSSSGSGGSSSSGGSSSSSGSSSSS
----SSGGGGGGGHGGSS---------
```

Original motif Consensus sequence:
SSSSSCSSSSSCCSSSSCCSCSSSSSS



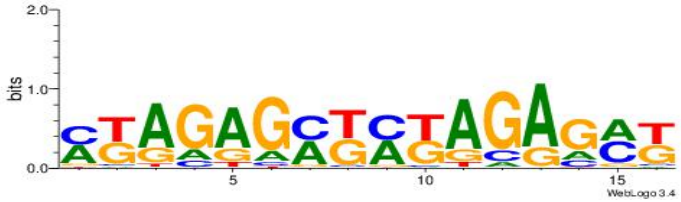
Reverse complement motif Consensus sequence:
SSSSSSGSGGSSSSGGSSSSSGSSSSS

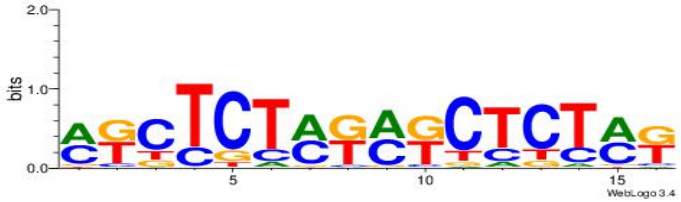


Dataset #: 1 Motif ID: 55 Motif name: C055

Original motif Consensus sequence: MKAGAGMKMKAGAGMK

Reverse complement motif Consensus sequence:
RYCTCTRRRRCTCTRR





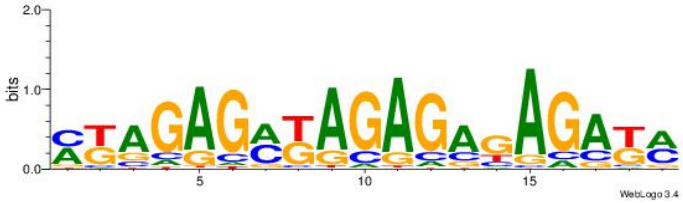
Best Matches for Motif ID 55 (Highest to Lowest)

Dataset #:	1
Motif ID:	12
Motif name:	C012
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.0277227

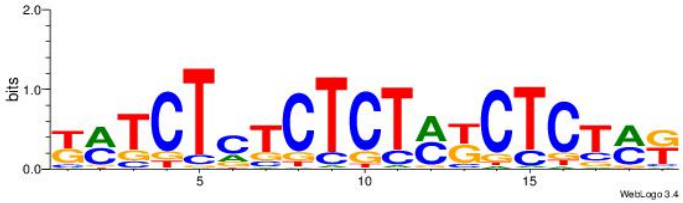
Alignment:

```
MKAGAGMKAGAGAGAGAKM
MKAGAGMKMKAGAGMK---
```

Original motif Consensus sequence: MKAGAGMKAGAGAGAGAKM



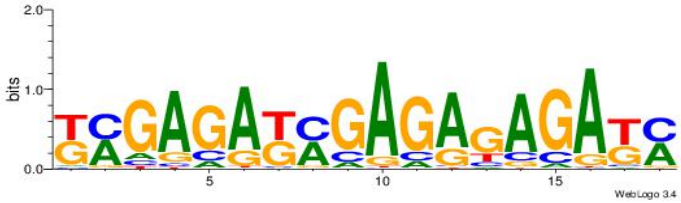
Reverse complement motif Consensus sequence: YRTCTCTCTCTRYCTCTRR



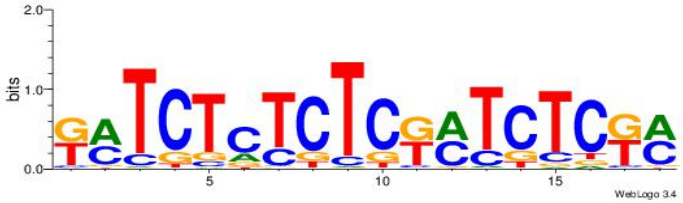
Dataset #:	1
Motif ID:	11
Motif name:	C011
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	16
Similarity score:	0.0407596

Alignment:
KMGAGAKMGAGAGAGAKM
-MKAGAGMKMKAGAGMK-

Original motif Consensus sequence: KMGAGAKMGAGAGAGAKM



Reverse complement motif Consensus sequence: RRTCTCTCTCRRTCTCRR

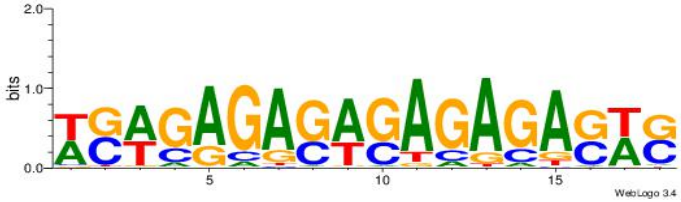


Dataset #:	1
Motif ID:	17
Motif name:	C017
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1

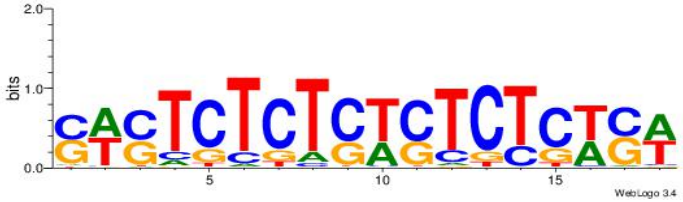
Number of overlap: 16
Similarity score: 0.0572526

Alignment:
WSWGAGASWSAGAGASWS
MKAGAGMKMKAGAGMK--

Original motif Consensus sequence: WSWGAGASWSAGAGASWS



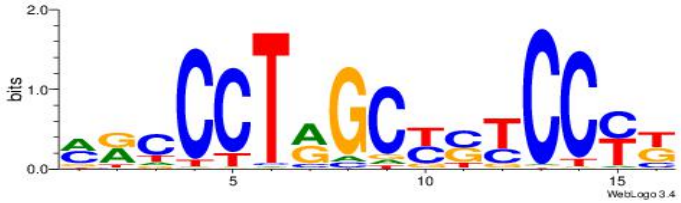
Reverse complement motif Consensus sequence: SWSTCTCTSWSTCTCWSW



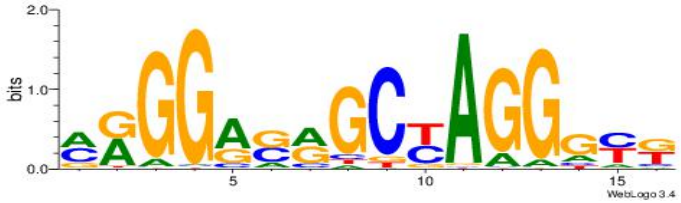
Dataset #: 1
Motif ID: 121
Motif name: C121
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 16
Similarity score: 0.0582287

Alignment:
RKGGASMGCKAGGGMY
MKAGAGMKMKAGAGMK

Original motif Consensus sequence: MRCCCTRGCYSTCCYK



Reverse complement motif Consensus sequence: RKGGASMGCKAGGGMY

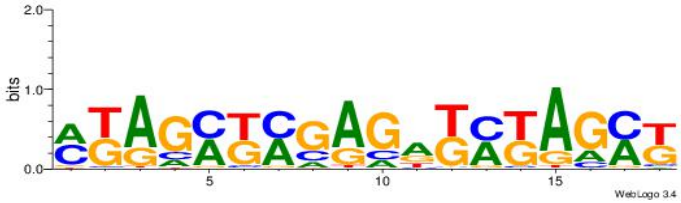


Dataset #:	1
Motif ID:	36
Motif name:	C036
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	16
Similarity score:	0.0615114

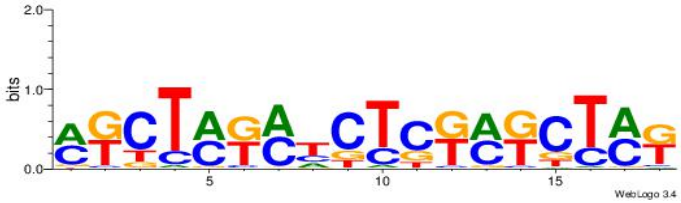
Alignment:

```
MKAGMKMGAGAKMKAGMK
--MKAGAGMKMKAGAGMK
```

Original motif Consensus sequence: MKAGMKMGAGAKMKAGMK

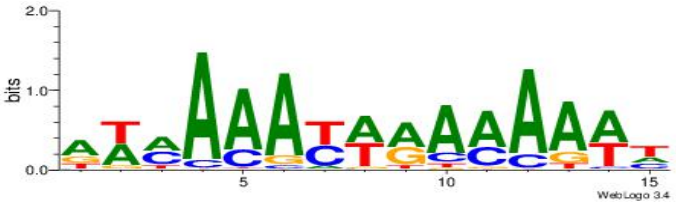


Reverse complement motif Consensus sequence: RRCTRRRTCTCRRRCTRY

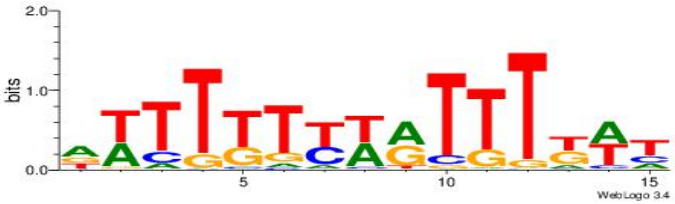


Dataset #: 1 Motif ID: 56 Motif name: C056

Original motif Consensus sequence: AWMAAAYWRAMAAWH



Reverse complement motif Consensus sequence: HWTTYTKWMTTTYWT



Best Matches for Motif ID 56 (Highest to Lowest)

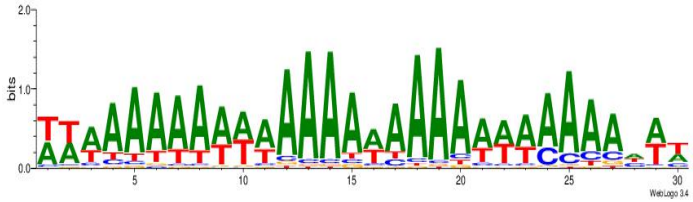
Dataset #:	1
Motif ID:	1
Motif name:	C001
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	15
Number of overlap:	15
Similarity score:	0.0174059

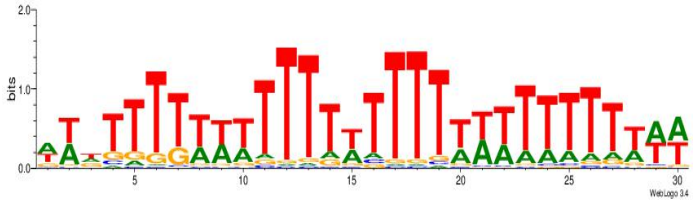
Alignment:

```
WWHTTTTWWTTTTTWTTTTTWWTTTTTWWW
-HWTTYTKWMTTTYWT--------------
```

Original motif Consensus sequence: WWWAAAAAWWAAAAAWAAAAAWWAAAAHWW

Reverse complement motif Consensus sequence: WWHTTTTWWTTTTTWTTTTTWWTTTTTWWW



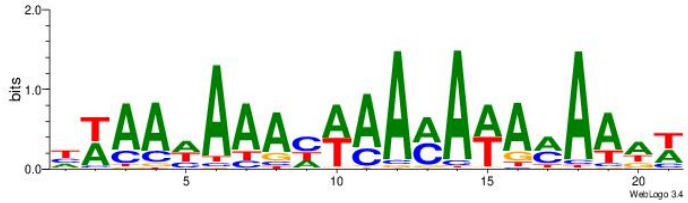


Dataset #:	1
Motif ID:	16
Motif name:	C016
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	15
Similarity score:	0.0238582

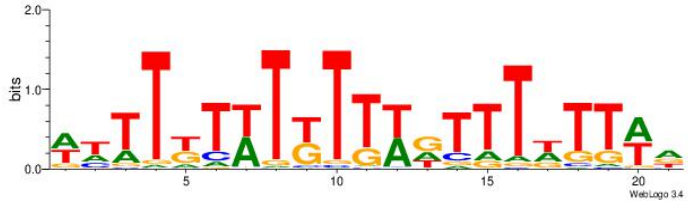
Alignment:

```
HWAAWAAAHWAAMAWAMAAWW
--AWMAAAYWRAMAAWH----
```

Original motif Consensus sequence: HWAAWAAAHWAAMAWAMAAWW



Reverse complement motif Consensus sequence: WWTTYTWTYTTWDTTTWTTWH



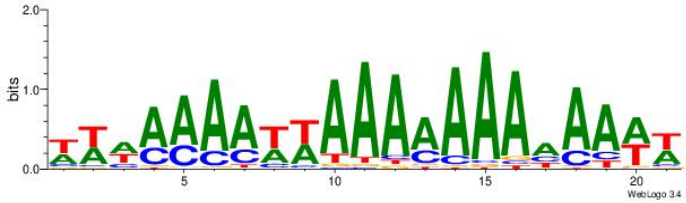
Dataset #:	1

Motif ID:	10
Motif name:	C010
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	15
Similarity score:	0.0247988

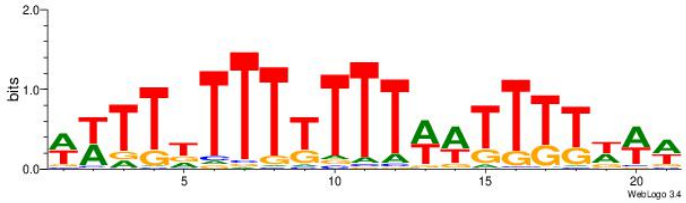
Alignment:

```
WWTTTTTTTTTTWWTTTTWWW
HWTTYTKWMTTTYWT------
```

Original motif Consensus sequence: WWWAAAAWWAAAAAAAAAWW



Reverse complement motif Consensus sequence: WWTTTTTTTTTTWWTTTTWWW

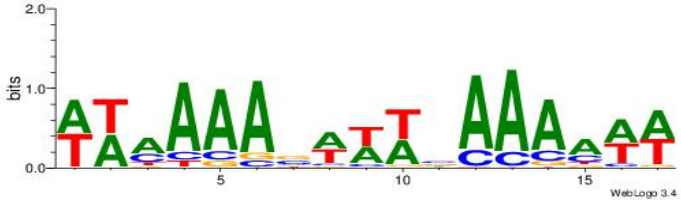


Dataset #:	1
Motif ID:	139
Motif name:	C139
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	15

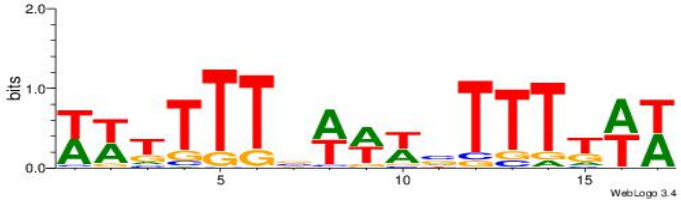
Similarity score: 0.0262578

Alignment:
WWMAAABWWWVAAAAWW
AWMAAAYWRAMAAWH--

Original motif Consensus sequence: WWMAAABWWWVAAAAWW



Reverse complement motif Consensus sequence: WWTTTTVWWWBTTTYWW

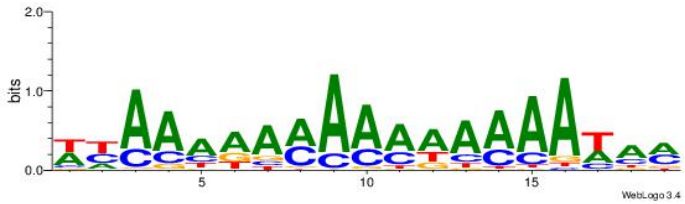


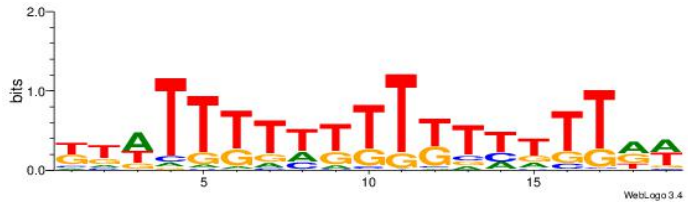
Dataset #: 1
Motif ID: 30
Motif name: C030
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 15
Similarity score: 0.0280412

Alignment:
YTWTTTTTTTTYTTTTTMW
-HWTTYTKWMTTTYWT---

Original motif Consensus sequence: WYAAAAAMAAAAAAAAWAM

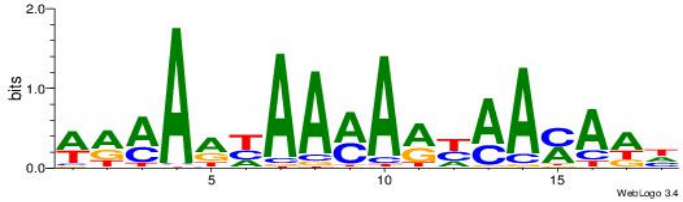
Reverse complement motif Consensus sequence: YTWTTTTTTTTYTTTTTMW



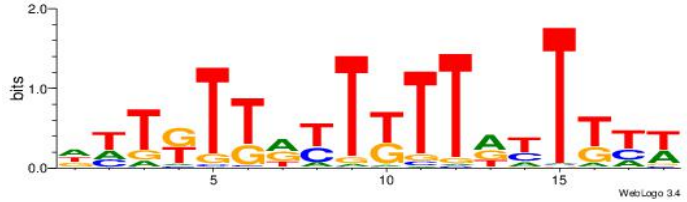


Dataset #: 1 Motif ID: 57 Motif name: C057

Original motif Consensus sequence: WRMARYAAMARYAAMAWH



Reverse complement motif Consensus sequence: HWTRTTMKTYTTMKTYKW



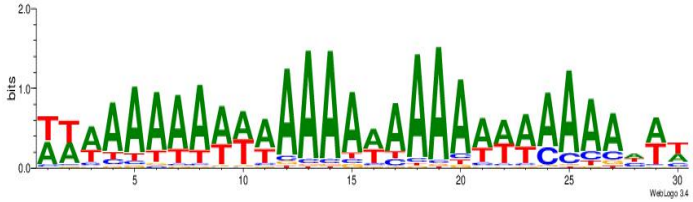
Best Matches for Motif ID 57 (Highest to Lowest)

Dataset #:	1
Motif ID:	1
Motif name:	C001
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	18
Similarity score:	0.0188081

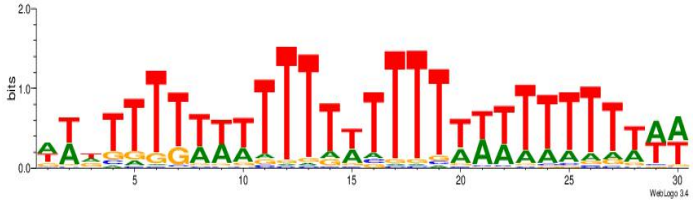
Alignment:

WWWAAAAAWWAAAAAWAAAAAWWAAAAHWW
----------WRMARYAAMARYAAMAWH--

Original motif Consensus sequence:
WWWAAAAAWWAAAAAWAAAAAWWAAAAHWW



Reverse complement motif Consensus sequence:
WWHTTTTWWTTTTTWTTTTTWWTTTTTWWW

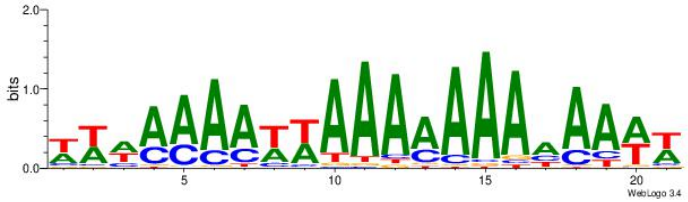


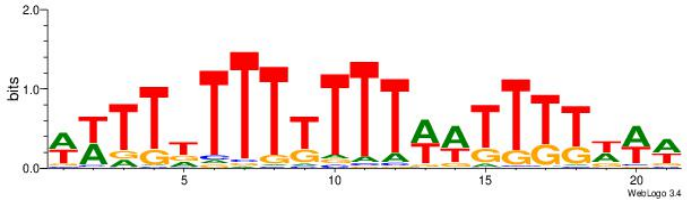
Dataset #:	1
Motif ID:	10
Motif name:	C010
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.0244335

Alignment:
WWWAAAAWWAAAAAAAAAAWW
--WRMARYAAMARYAAMAWH-

Original motif Consensus sequence: WWWAAAAWWAAAAAAAAAAWW

Reverse complement motif Consensus sequence:
WWTTTTTTTTTTWWTTTTWWW

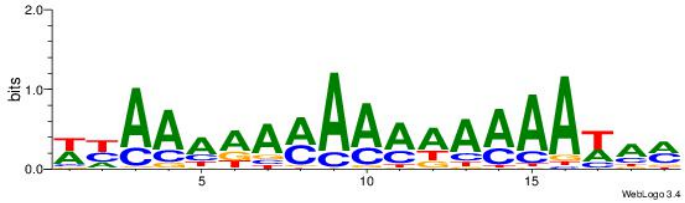




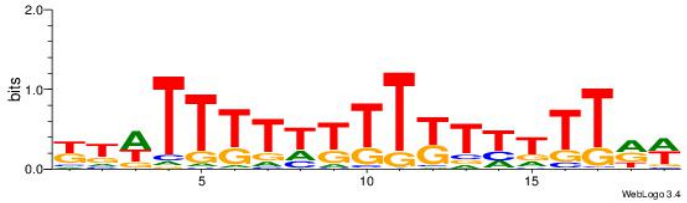
Dataset #: 1
Motif ID: 30
Motif name: C030
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 18
Similarity score: 0.032013

Alignment:
WYAAAAAMAAAAAAAAWAM
-WRMARYAAMARYAAMAWH

Original motif Consensus sequence: WYAAAAAMAAAAAAAAWAM



Reverse complement motif Consensus sequence: YTWTTTTTTTTYTTTTTMW



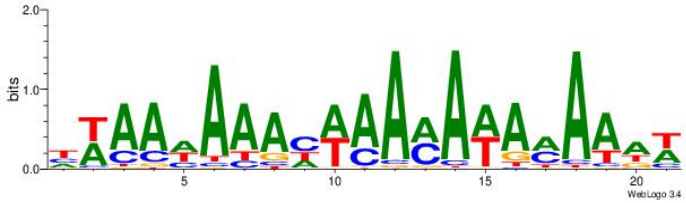
Dataset #: 1

Motif ID:	16
Motif name:	C016
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	18
Similarity score:	0.0342459

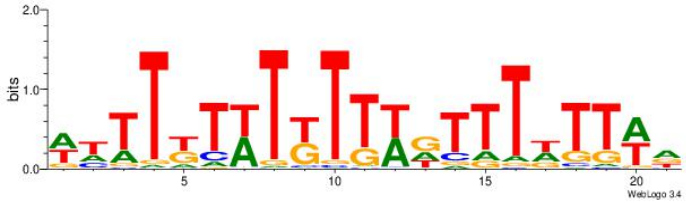
Alignment:

```
HWAAWAAAHWAAMAWAMAAWW
---WRMARYAAMARYAAMAWH
```

Original motif Consensus sequence: HWAAWAAAHWAAMAWAMAAWW



Reverse complement motif Consensus sequence: WWTTYTWTYTTWDTTTWTTWH

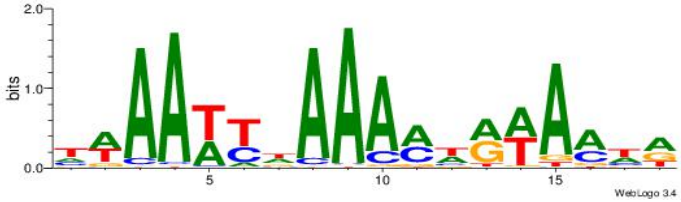


Dataset #:	1
Motif ID:	32
Motif name:	C032
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	18

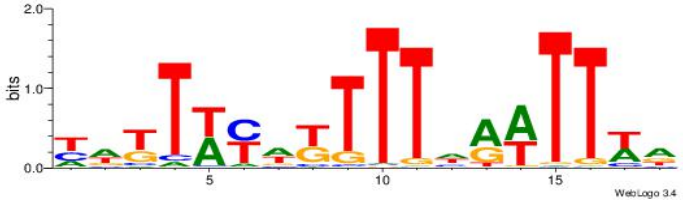
Similarity score: 0.0370038

Alignment:
HWAAWYDAAAMWRWAMWR
WRMARYAAMARYAAMAWH

Original motif Consensus sequence: HWAAWYDAAAMWRWAMWR

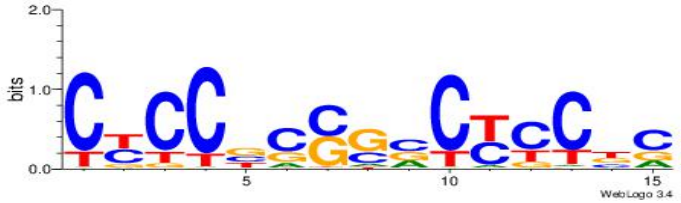


Reverse complement motif Consensus sequence: KWYTWKWYTTTDMWTTWH

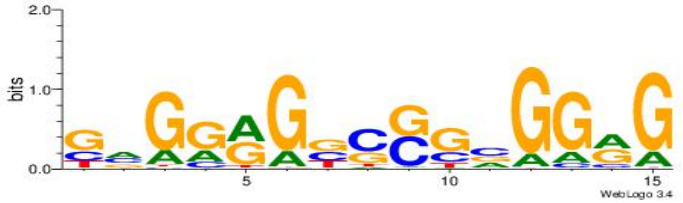


Dataset #: 1 Motif ID: 58 Motif name: C058

Original motif Consensus sequence: CYCCBCSGVCYCCBC



Reverse complement motif Consensus sequence: GVGGMGVCSGBGGMG



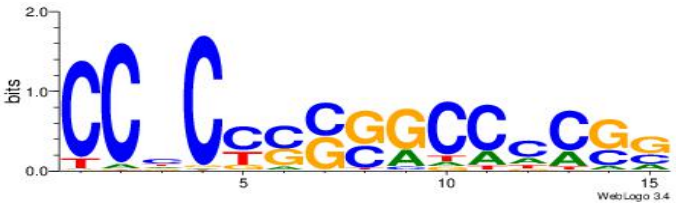
Best Matches for Motif ID 58 (Highest to Lowest)

Dataset #:	1
Motif ID:	112
Motif name:	C112
Matching format of first motif:	Original Motif

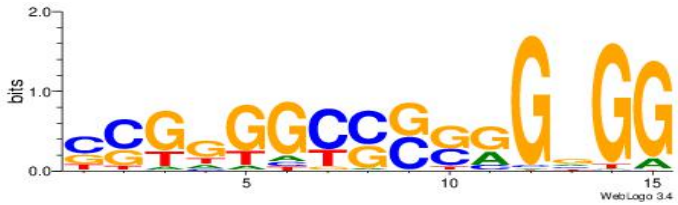
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	15
Similarity score:	0.0133513

Alignment:
CCBCYSSSGCCCCSS
CYCCBCSGVCYCCBC

Original motif Consensus sequence: CCBCYSSSGCCCCSS



Reverse complement motif Consensus sequence: SSGGGGCSSSKGBGG

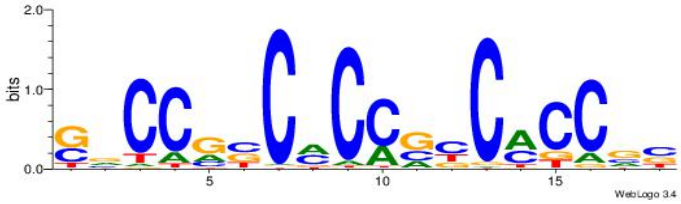


Dataset #:	1
Motif ID:	37
Motif name:	C037
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	15
Similarity score:	0.0170428

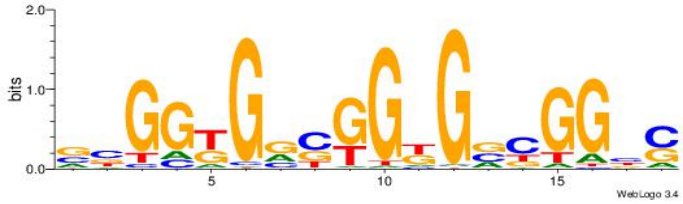
Alignment:

BVGGYGKSGGYGBCGGVS
GVGGMGVCSGBGGMG---

Original motif Consensus sequence: SVCCGBCMCCSYCMCCVB



Reverse complement motif Consensus sequence: BVGGYGKSGGYGBCGGVS

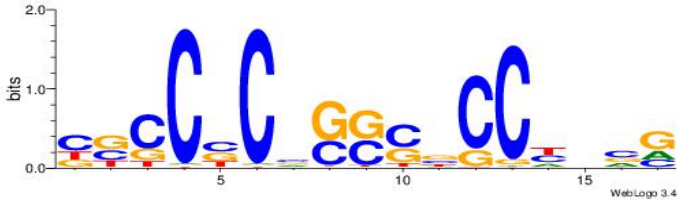


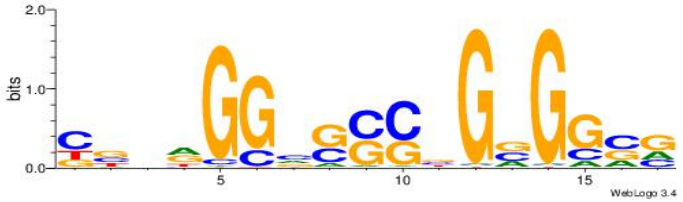
Dataset #:	1
Motif ID:	140
Motif name:	C140
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	15
Similarity score:	0.0187263

Alignment:
BSCCBCVSSSBCCYHVG
CYCCBCSGVCYCCBC--

Original motif Consensus sequence: BSCCBCVSSSBCCYHVG

Reverse complement motif Consensus sequence: CVDMGGBSSSVGBGGSB

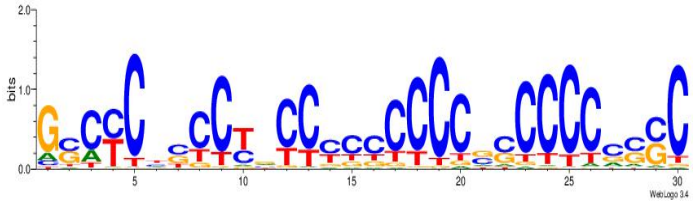




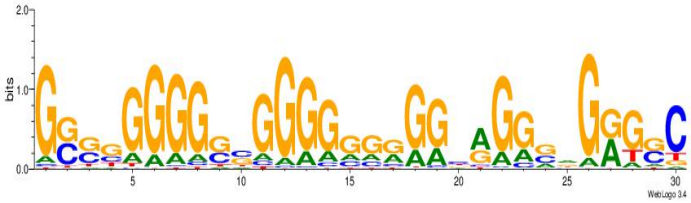
Dataset #: 1
Motif ID: 3
Motif name: C003
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 14
Number of overlap: 15
Similarity score: 0.0189191

Alignment:
GSCYCHSCCYVCCYCCCCCCSSCCCCCSSC
----------CYCCBCSGVCYCCBC--

Original motif Consensus sequence:
GSCYCHSCCYVCCYCCCCCCSSCCCCCSSC



Reverse complement motif Consensus sequence:
GSSGGGGGSSGGGGGGKGGVMGGSHGKGSC



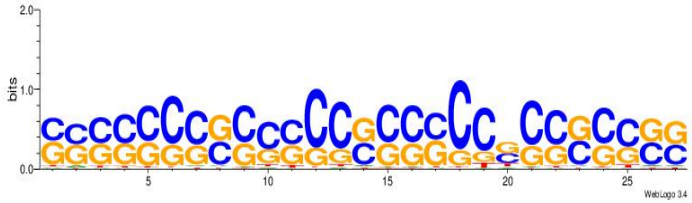
Dataset #: 1

Motif ID:	4
Motif name:	C004
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	15
Similarity score:	0.0189308

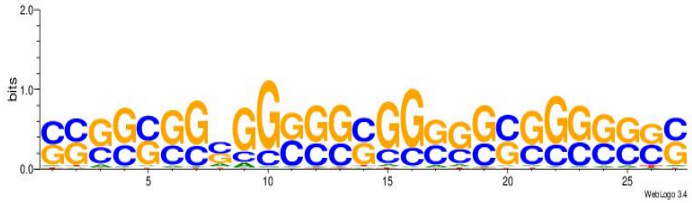
Alignment:

```
SSSSSCSSSSSCCSSSSCCSCSSSSSS
---------CYCCBCSGVCYCCBC---
```

Original motif Consensus sequence:
SSSSSCSSSSSCCSSSSCCSCSSSSSS

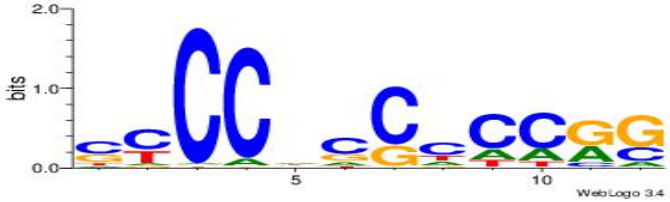


Reverse complement motif Consensus sequence:
SSSSSSGSGGSSSSGGSSSSSGSSSSS

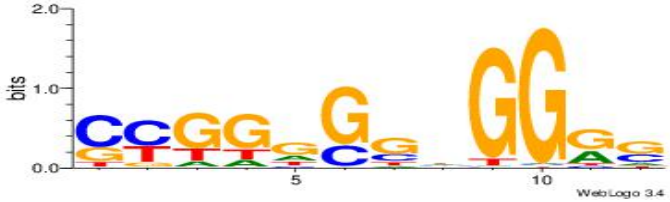


Dataset #: 1 Motif ID: 59 Motif name: C059

Original motif Consensus sequence: SYCCDCCCCCRG



Reverse complement motif Consensus sequence: CMGGGGGDGGKS

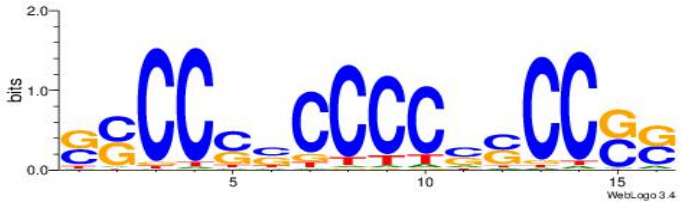


Best Matches for Motif ID 59 (Highest to Lowest)

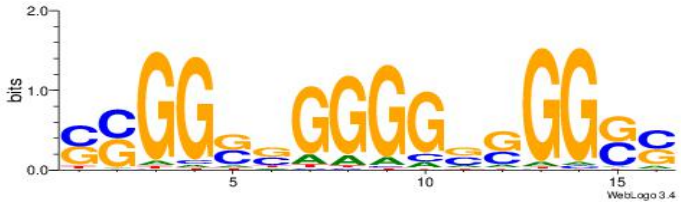
Dataset #:	1
Motif ID:	8
Motif name:	C008
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.0187581

Alignment:
SSCCSSCCCCSSCCSS
SYCCDCCCCCRG----

Original motif Consensus sequence: SSCCSSCCCCSSCCSS



Reverse complement motif Consensus sequence: SSGGSSGGGGSSGGSS



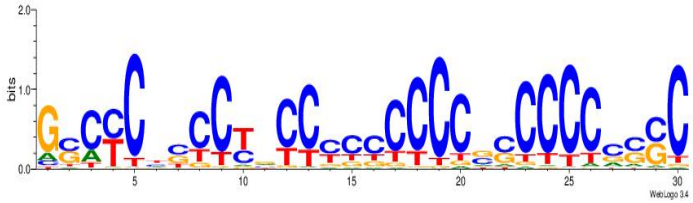
Dataset #:	1
Motif ID:	3
Motif name:	C003
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif

Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.0189659

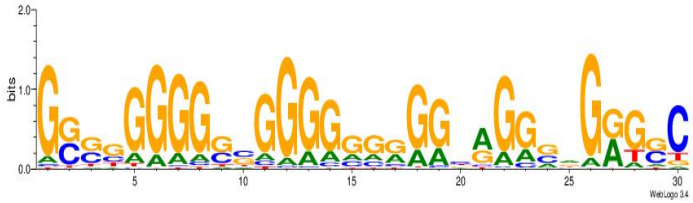
Alignment:

```
GSCYCHSCCYVCCYCCCCCCSSCCCCCSSC
----------------SYCCDCCCCCRG--
```

Original motif Consensus sequence:
GSCYCHSCCYVCCYCCCCCCSSCCCCCSSC



Reverse complement motif Consensus sequence:
GSSGGGGGSSGGGGGGKGGVMGGSHGKGSC

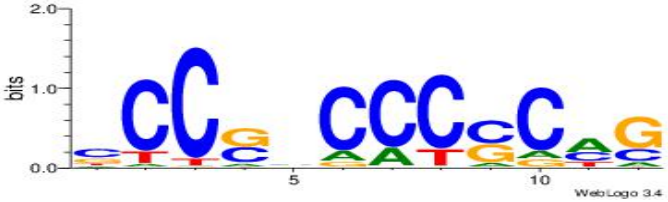


Dataset #:	1
Motif ID:	81
Motif name:	C081
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	12
Similarity score:	0.0197846

Alignment:

```
CYGSGGGHSGGB
CMGGGGGDGGKS
```

Original motif Consensus sequence: BCCSHCCCSCMG



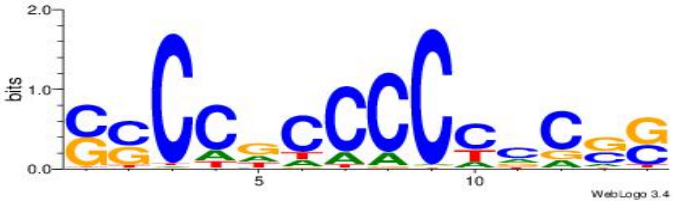
Reverse complement motif Consensus sequence: CYGSGGGHSGGB

Dataset #:	1
Motif ID:	54
Motif name:	C054
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.0243956

Alignment:

```
SSCCDCCCCCCCSS
SYCCDCCCCCRG--
```

Original motif Consensus sequence: SSCCDCCCCCCCSS



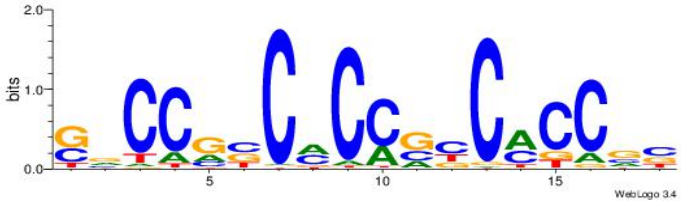
Reverse complement motif Consensus sequence: SSGGGGGGHGG

Dataset #:	1
Motif ID:	37
Motif name:	C037
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	12
Similarity score:	0.025237

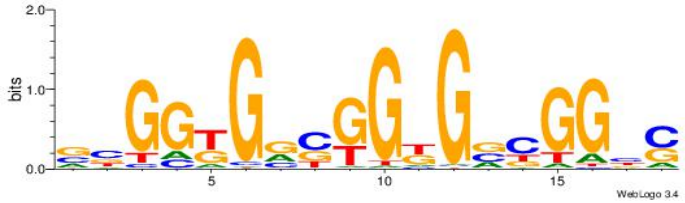
Alignment:

```
SVCCGBCMCCSYCMCCVB
SYCCDCCCCCRG------
```

Original motif Consensus sequence: SVCCGBCMCCSYCMCCVB



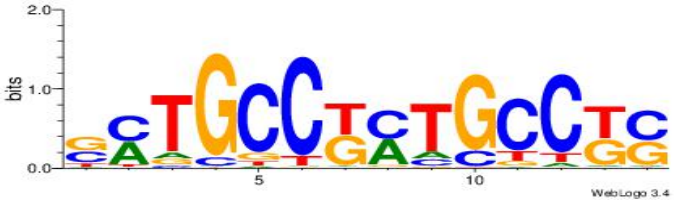
Reverse complement motif Consensus sequence: BVGGYGKSGGYGBCGGVS



Dataset #: 1 Motif ID: 60 Motif name: C060

Original motif Consensus sequence: SMGGCAKMGGCAKS

Reverse complement motif Consensus sequence: SYTGCCYYTGCCYS



Best Matches for Motif ID 60 (Highest to Lowest)

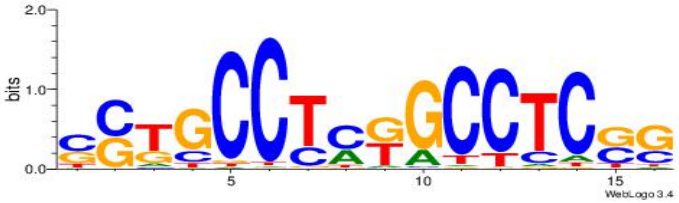
Dataset #:	1
Motif ID:	41
Motif name:	C041
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	14
Similarity score:	0.0270843

Alignment:

```
CSGAGGCMKAGGCASS
--SMGGCAKMGGCAKS
```

Original motif Consensus sequence: CSGAGGCMKAGGCASS

Reverse complement motif Consensus sequence: SSTGCCTYRGCCTCSG

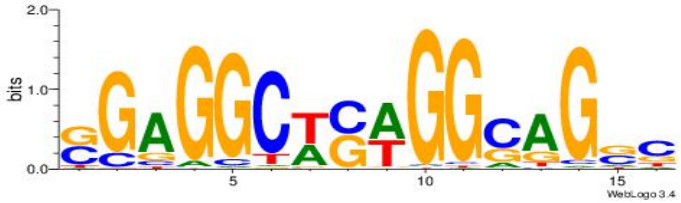


Dataset #:	1
Motif ID:	48
Motif name:	C048
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.0323426

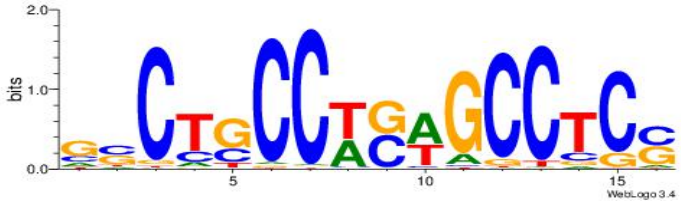
Alignment:

```
SGAGGCWSWGGCAGSC
-SMGGCAKMGGCAKS-
```

Original motif Consensus sequence: SGAGGCWSWGGCAGSC



Reverse complement motif Consensus sequence: GSCTGCCWSWGCCTCS

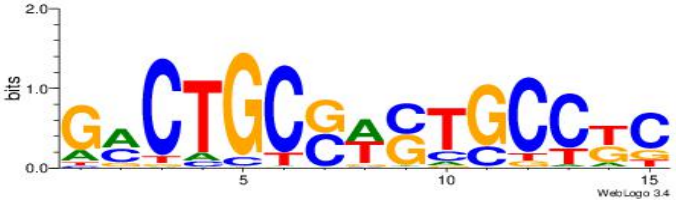


Dataset #:	1
Motif ID:	118
Motif name:	C118
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

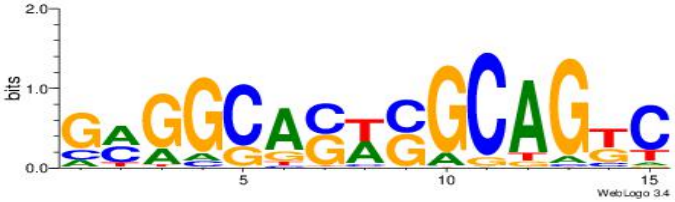
Number of overlap: 14
Similarity score: 0.0327086

Alignment:
GMCTGCSWSTGCCKC
-SYTGCCYYTGCCYS

Original motif Consensus sequence: GMCTGCSWSTGCCKC



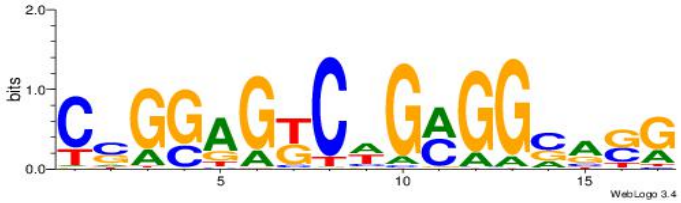
Reverse complement motif Consensus sequence: GRGGCASWSGCAGYC



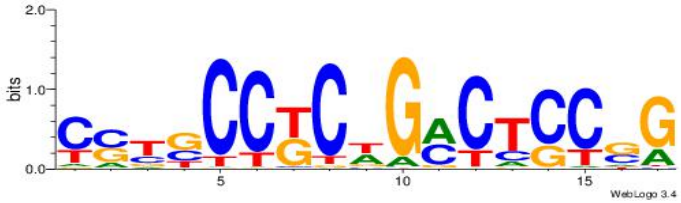
Dataset #: 1
Motif ID: 86
Motif name: C086
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 14
Similarity score: 0.0345156

Alignment:
CSGGAGKCWGMGGSASG
---SMGGCAKMGGCAKS

Original motif Consensus sequence: CSGGAGKCWGMGGSASG



Reverse complement motif Consensus sequence: CSTSCCYCWGRCTCCSG

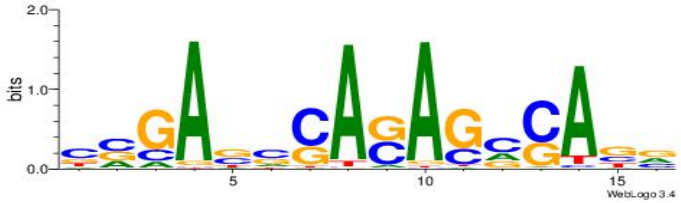


Dataset #:	1
Motif ID:	28
Motif name:	C028
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.0496439

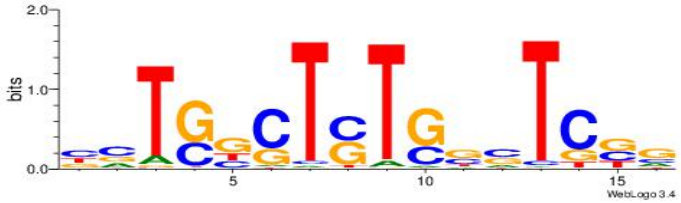
Alignment:

```
VBTSVCTSTGSSTCVB
SYTGCCYYTGCCYS--
```

Original motif Consensus sequence: BVGASSCASAGVSABV

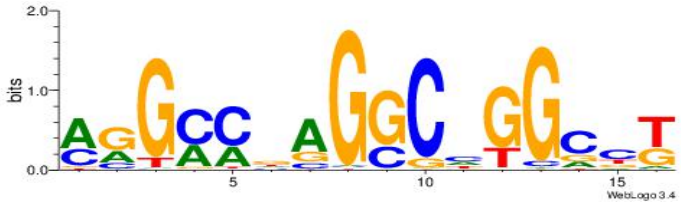


Reverse complement motif Consensus sequence: VBTSVCTSTGSSTCVB

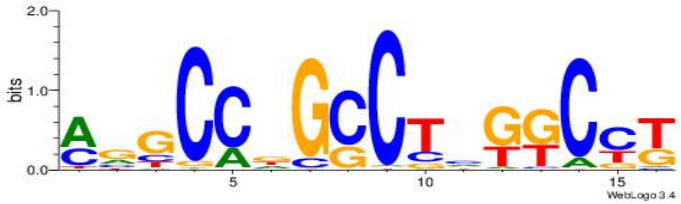


Dataset #: 1 **Motif ID: 61** **Motif name: C061**

Original motif Consensus sequence: MRGMMBAGGCHGGCCK



Reverse complement motif Consensus sequence: RGGCCDGCCTBRRCMY



Best Matches for Motif ID 61 (Highest to Lowest)

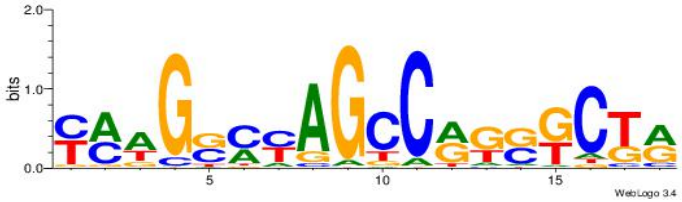
Dataset #:	1
Motif ID:	73
Motif name:	C073
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	16
Similarity score:	0.0275681

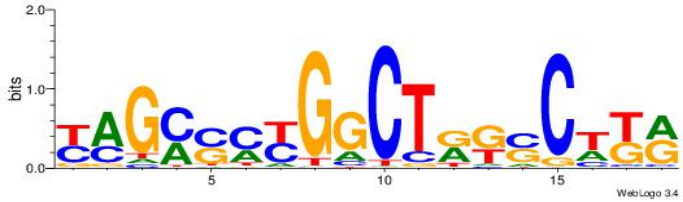
Alignment:

```
KAGYSYKGGCTKRSCWYK
-RGGCCDGCCTBRRCMY-
```

Original motif Consensus sequence: YMWGSMYAGCCRKSKCTR

Reverse complement motif Consensus sequence: KAGYSYKGGCTKRSCWYK



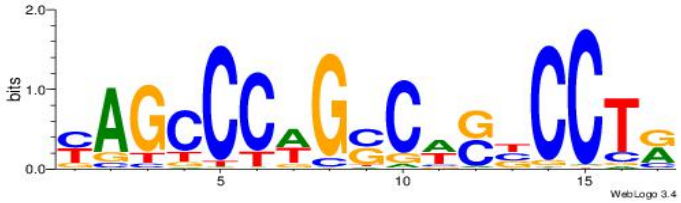


Dataset #:	1
Motif ID:	122
Motif name:	C122
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	16
Similarity score:	0.033106

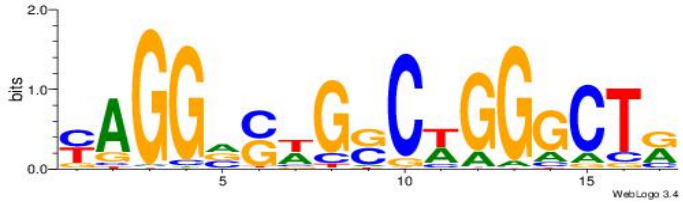
Alignment:

```
MAGGVSWGSCWGGGCTK
MRGMMBAGGCHGGCCK-
```

Original motif Consensus sequence: YAGCCCWGSCWSBCCTR



Reverse complement motif Consensus sequence: MAGGVSWGSCWGGGCTK



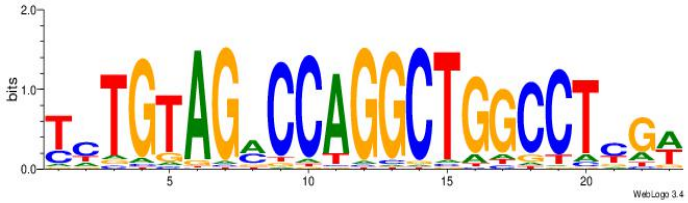
Dataset #: 1

Motif ID:	5
Motif name:	C005
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	16
Similarity score:	0.0398636

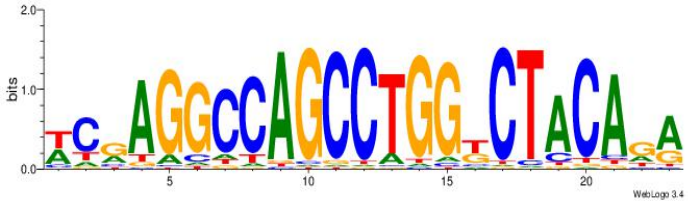
Alignment:

```
TCTGTAGMCCAGGCTGGCCTYGW
----MRGMMBAGGCHGGCCK---
```

Original motif Consensus sequence: TCTGTAGMCCAGGCTGGCCTYGW



Reverse complement motif Consensus sequence: WCKAGGCCAGCCTGGYCTACAGA

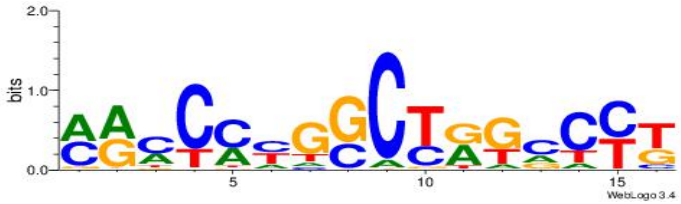


Dataset #:	1
Motif ID:	96
Motif name:	C096
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	16

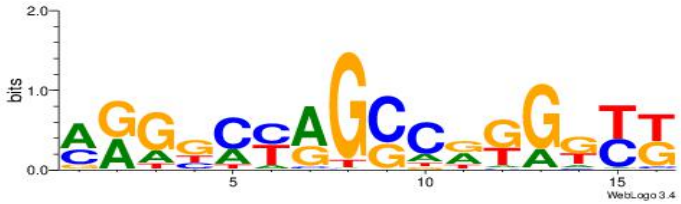
Similarity score: 0.0431269

Alignment:
MRMCMYGSCYRGCCYK
RGGCCDGCCTBRRCMY

Original motif Consensus sequence: MRMCMYGSCYRGCCYK



Reverse complement motif Consensus sequence: RKGGCMMGSCKRGRKY

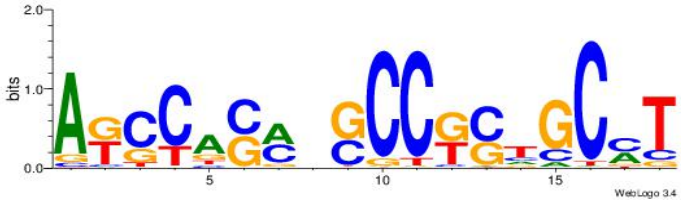


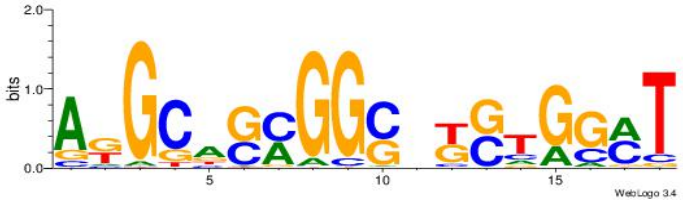
Dataset #: 1
Motif ID: 93
Motif name: C093
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 16
Similarity score: 0.0437797

Alignment:
AKCCASMBSCCKSTGCMT
--RGGCCDGCCTBRRCMY

Original motif Consensus sequence: AKCCASMBSCCKSTGCMT

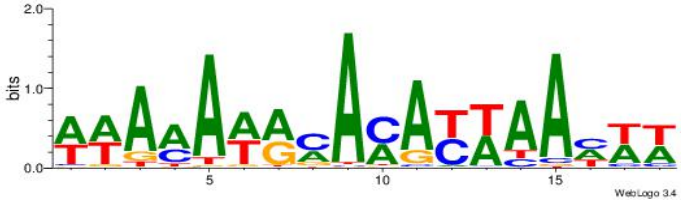
Reverse complement motif Consensus sequence: ARGCASYGGSVYSTGGYT



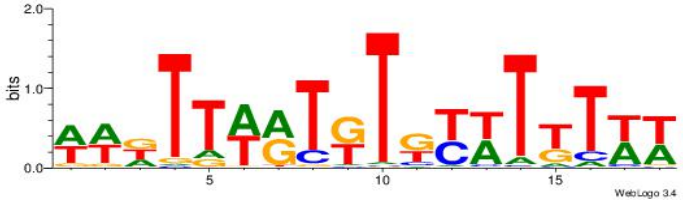


Dataset #: 1 **Motif ID: 62** **Motif name: C062**

Original motif Consensus sequence: WWAMAWRMAMAYWAAHWW



Reverse complement motif Consensus sequence: WWDTTWMTRTRKWTYTWW



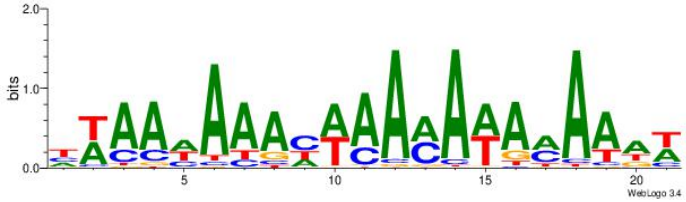
Best Matches for Motif ID 62 (Highest to Lowest)

Dataset #:	1
Motif ID:	16
Motif name:	C016
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.0181545

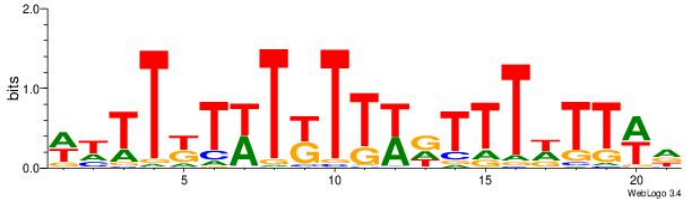
Alignment:

HWAAWAAAHWAAMAWAMAAWW
---WWAMAWRMAMAYWAAHWW

Original motif Consensus sequence: HWAAWAAAHWAAMAWAMAAWW



Reverse complement motif Consensus sequence: WWTTYTWTYTTWDTTTWTTWH

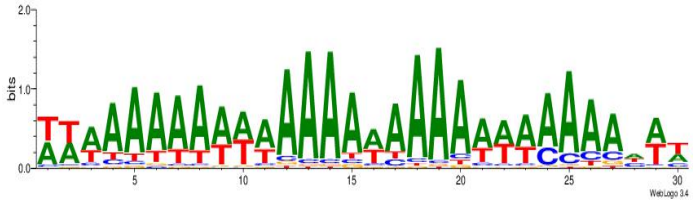


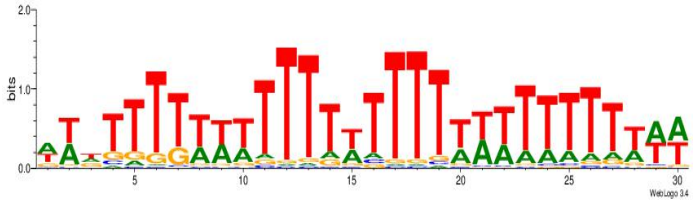
Dataset #:	1
Motif ID:	1
Motif name:	C001
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	9
Number of overlap:	18
Similarity score:	0.022296

Alignment:
WWWAAAAAWWAAAAAWAAAAAWWAAAAHWW
----WWAMAWRMAMAYWAAHWW--------

Original motif Consensus sequence: WWWAAAAAWWAAAAAWAAAAAWWAAAAHWW

Reverse complement motif Consensus sequence: WWHTTTTWWTTTTTWTTTTTWWTTTTTWWW

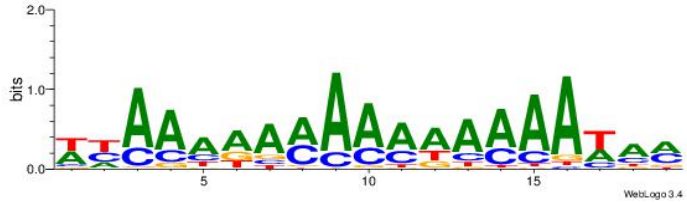




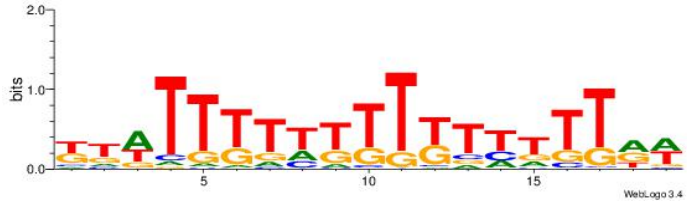
Dataset #: 1
Motif ID: 30
Motif name: C030
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 18
Similarity score: 0.0268461

Alignment:
WYAAAAAMAAAAAAAAWAM
WWAMAWRMAMAYWAAHWW-

Original motif Consensus sequence: WYAAAAAMAAAAAAAAWAM



Reverse complement motif Consensus sequence: YTWTTTTTTTTYTTTTTMW



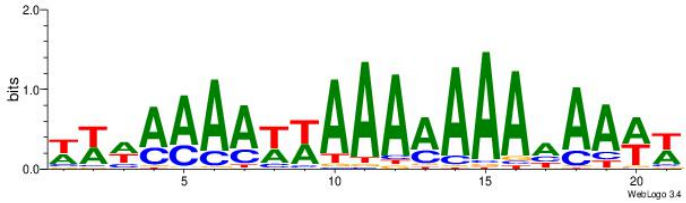
Dataset #: 1

Motif ID:	10
Motif name:	C010
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.0319895

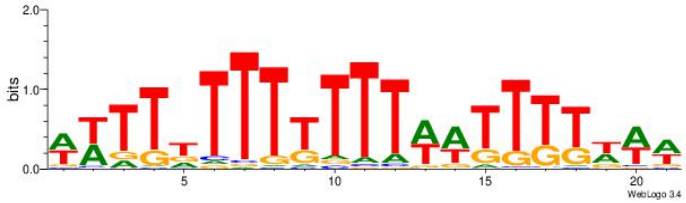
Alignment:

```
WWWAAAAWWAAAAAAAAAAWW
---WWAMAWRMAMAYWAAHWW
```

Original motif Consensus sequence: WWWAAAAWWAAAAAAAAAAWW



Reverse complement motif Consensus sequence: WWTTTTTTTTTTWWTTTTWWW

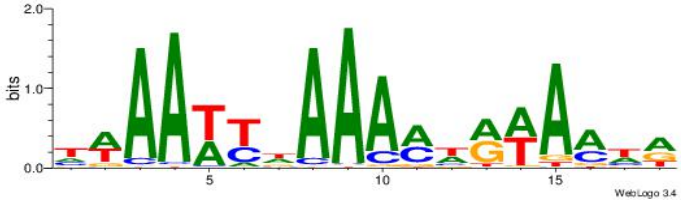


Dataset #:	1
Motif ID:	32
Motif name:	C032
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	18

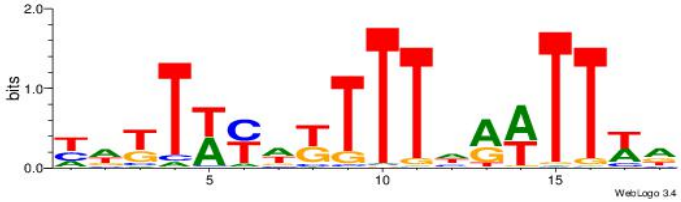
Similarity score: 0.0355184

Alignment:
HWAAWYDAAAMWRWAMWR
WWAMAWRMAMAYWAAHWW

Original motif Consensus sequence: HWAAWYDAAAMWRWAMWR

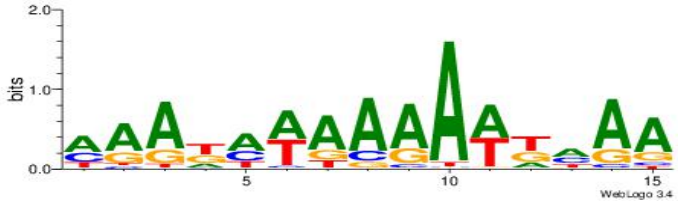


Reverse complement motif Consensus sequence: KWYTWKWYTTTDMWTTWH

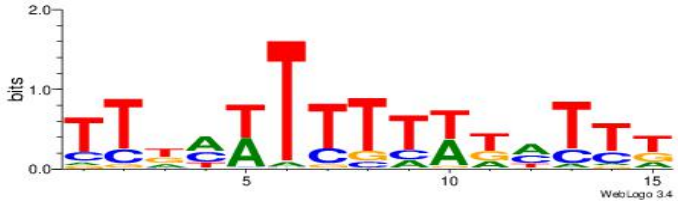


Dataset #: 1 Motif ID: 63 Motif name: C063

Original motif Consensus sequence: MAAKMWAAAAWKHAA



Reverse complement motif Consensus sequence: TTHRWTTTTWYRT



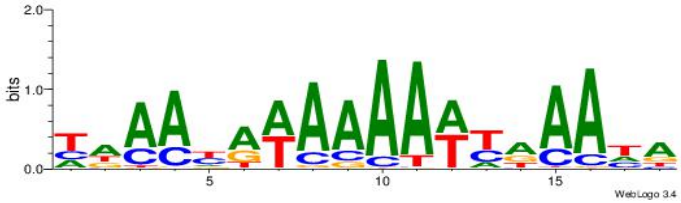
Best Matches for Motif ID 63 (Highest to Lowest)

Dataset #:	1
Motif ID:	24
Motif name:	C024
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement

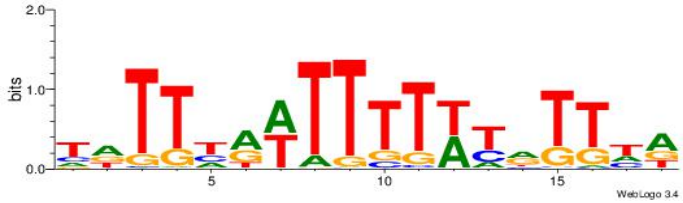
Direction:	Forward
Position number:	3
Number of overlap:	15
Similarity score:	0.0248724

Alignment:
THTTDMWTTTTWKMTTDA
--TTHRWTTTTWYRTTY-

Original motif Consensus sequence: TDAAYRWAAAAWYDAAHA



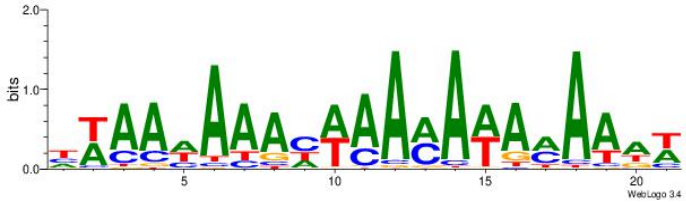
Reverse complement motif Consensus sequence:
THTTDMWTTTTWKMTTDA



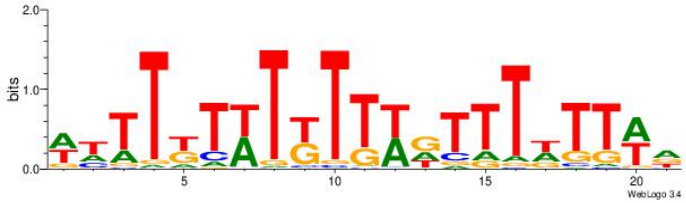
Dataset #:	1
Motif ID:	16
Motif name:	C016
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	15
Similarity score:	0.0290274

Alignment:
HWAAWAAAHWAAMAWAMAAWW
----MAAKMWAAAAWKHAA--

Original motif Consensus sequence: HWAAWAAAHWAAMAWAMAAWW



Reverse complement motif Consensus sequence: WWTTYTWTYTTWDTTTWTTWH

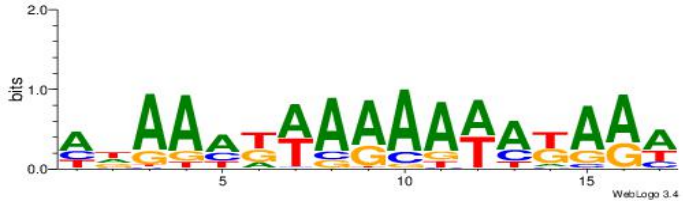


Dataset #:	1
Motif ID:	79
Motif name:	C079
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	15
Similarity score:	0.0322494

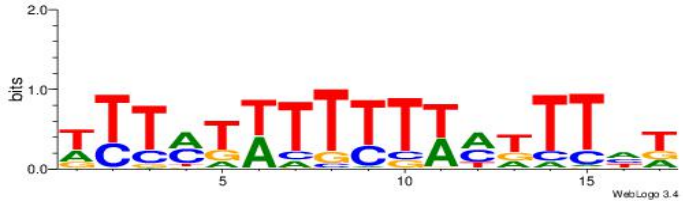
Alignment:

```
WKTRTWTTTTWRTTTDT
--TTHRWTTTTWYRTTY
```

Original motif Consensus sequence: ADAAAKWAAAAWAKARW



Reverse complement motif Consensus sequence: WKTRTWTTTTWRTTTDT

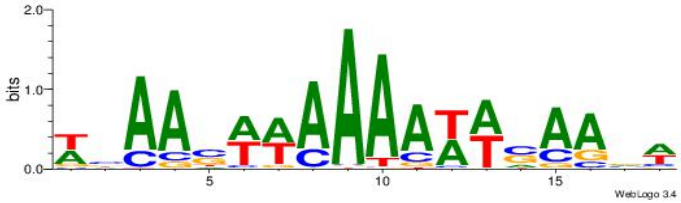


Dataset #:	1
Motif ID:	97
Motif name:	C097
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	15
Similarity score:	0.0331992

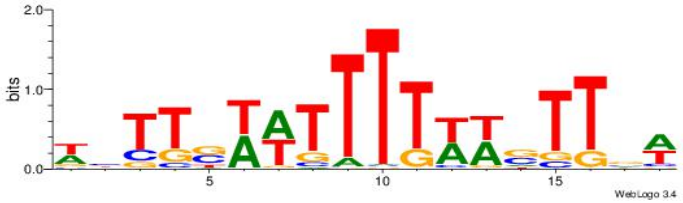
Alignment:

```
WBAASWWAAAAWWSAAVW
-MAAKMWAAAAWKHAA--
```

Original motif Consensus sequence: WBAASWWAAAAWWSAAVW



Reverse complement motif Consensus sequence: WVTTSWWTTTTWWSTTBW

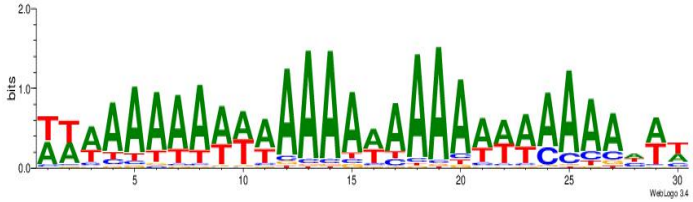


Dataset #:	1
Motif ID:	1
Motif name:	C001
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5

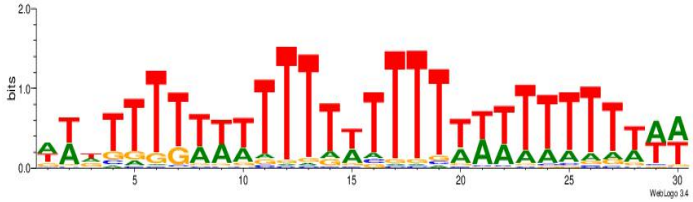
Number of overlap: 15
Similarity score: 0.0352734

Alignment:
WWWAAAAAWWAAAAAWAAAAAWWAAAAHWW
----MAAKMWAAAAWKHAA----------

Original motif Consensus sequence:
WWWAAAAAWWAAAAAWAAAAAWWAAAAHWW

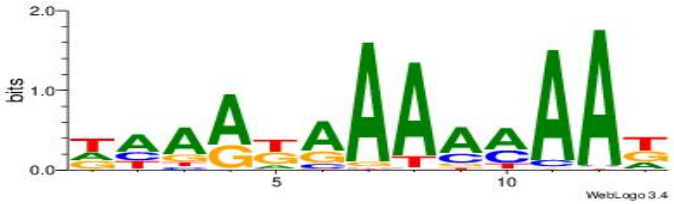


Reverse complement motif Consensus sequence:
WWHTTTTWWTTTTTWTTTTTWWTTTTTWWW

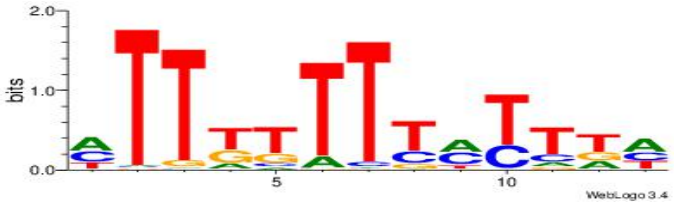


Dataset #: 1 Motif ID: 64 Motif name: C064

Original motif Consensus sequence: DAAAKAAAAMAAK



Reverse complement motif Consensus sequence: RTTYTTTTRTTTD



Best Matches for Motif ID 64 (Highest to Lowest)

Dataset #: 1
Motif ID: 131
Motif name: C131
Matching format of first motif: Reverse Complement

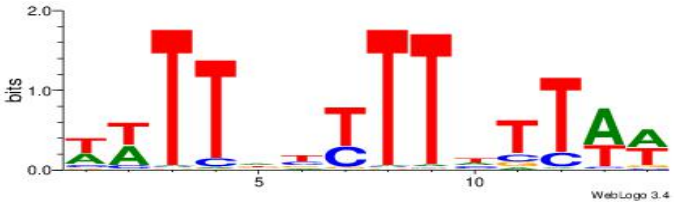
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.029048

Alignment:

```
WWTTHBKTTDTTWW
-RTTYTTTTRTTTD
```

Original motif Consensus sequence: WWAADAARVHAAWW

Reverse complement motif Consensus sequence: WWTTHBKTTDTTW

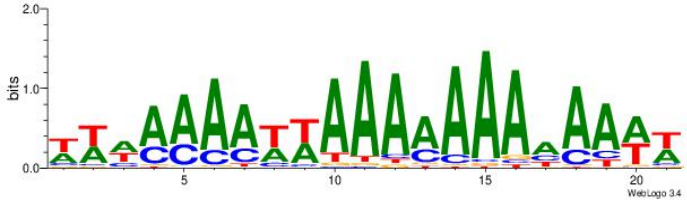


Dataset #:	1
Motif ID:	10
Motif name:	C010
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.0335106

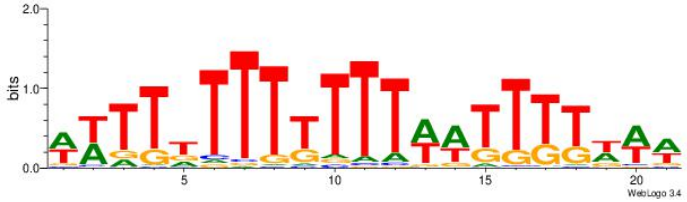
Alignment:

WWTTTTTTTTTTWWTTTTWWW
-RTTYTTTTRTTTD-------

Original motif Consensus sequence: WWWAAAAWWAAAAAAAAAWW



Reverse complement motif Consensus sequence: WWTTTTTTTTTTWWTTTTWWW

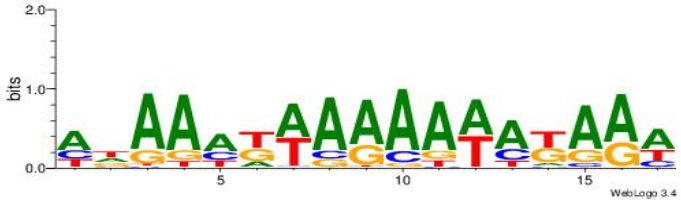


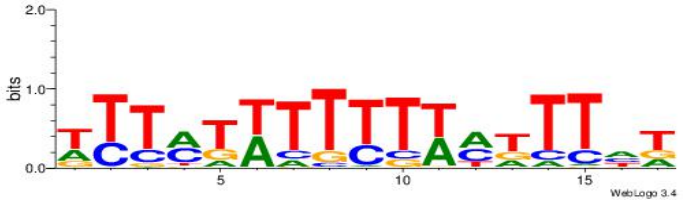
Dataset #:	1
Motif ID:	79
Motif name:	C079
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	13
Similarity score:	0.037939

Alignment:
ADAAAKWAAAAWAKARW
-DAAAKAAAAMAAK---

Original motif Consensus sequence: ADAAAKWAAAAWAKARW

Reverse complement motif Consensus sequence: WKTRTWTTTTWRTTTDT



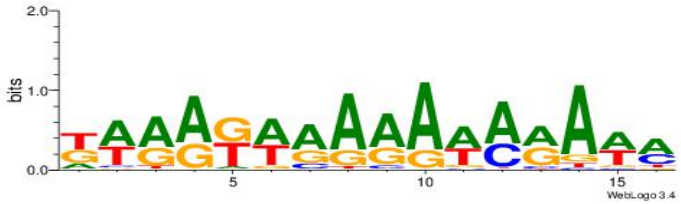


Dataset #:	1
Motif ID:	152
Motif name:	C152
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	13
Similarity score:	0.0379551

Alignment:

```
KWRRKWRARAWMRAWM
DAAAKAAAAMAAK---
```

Original motif Consensus sequence: KWRRKWRARAWMRAWM



Reverse complement motif Consensus sequence: YWTKYWTKTKWYKKWR

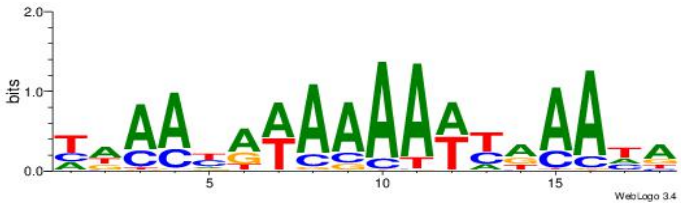
Dataset #:	1

Motif ID:	24
Motif name:	C024
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.0419927

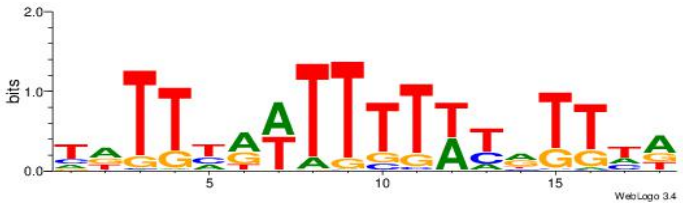
Alignment:

```
TDAAYRWAAAAWYDAAHA
DAAAKAAAAMAAK-----
```

Original motif Consensus sequence: TDAAYRWAAAAWYDAAHA

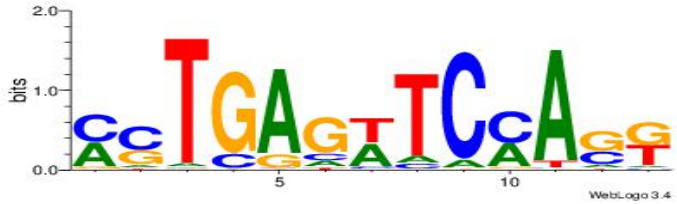


Reverse complement motif Consensus sequence: THTTDMWTTTTWKMTTDA

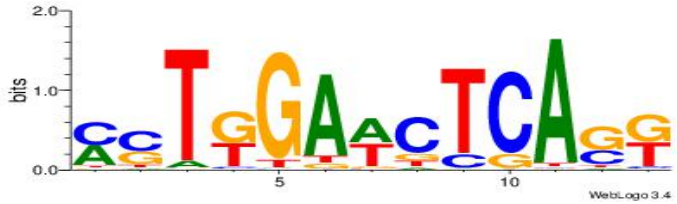


Dataset #: 1 Motif ID: 65 Motif name: C065

Original motif Consensus sequence: MSTGAGWTCMASK



Reverse complement motif Consensus sequence: YSTRGAWCTCASR



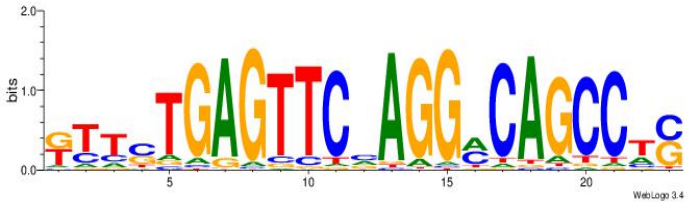
Best Matches for Motif ID 65 (Highest to Lowest)

Dataset #:	1
Motif ID:	7
Motif name:	C007
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	9
Number of overlap:	13
Similarity score:	0.00190829

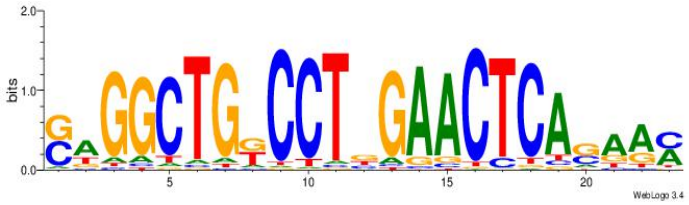
Alignment:

```
SAGGCTGYCCTVGAACTCASAAY
--------YSTRGAWCTCASR--
```

Original motif Consensus sequence: KTTSTGAGTTCVAGGMCAGCCTS



Reverse complement motif Consensus sequence: SAGGCTGYCCTVGAACTCASAAY

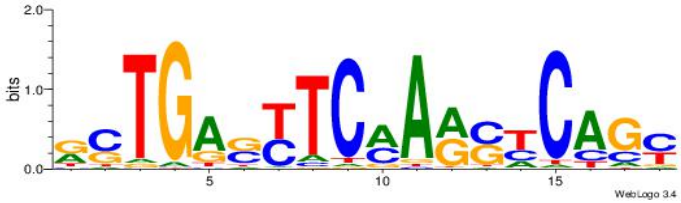


Dataset #:	1
Motif ID:	40
Motif name:	C040
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif

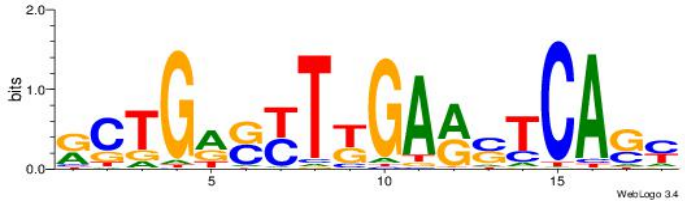
Direction:	Backward
Position number:	6
Number of overlap:	13
Similarity score:	0.0036319

Alignment:
RSTGASYTCMARSYCAGY
MSTGAGWTCMASK-----

Original motif Consensus sequence: RSTGASYTCMARSYCAGY



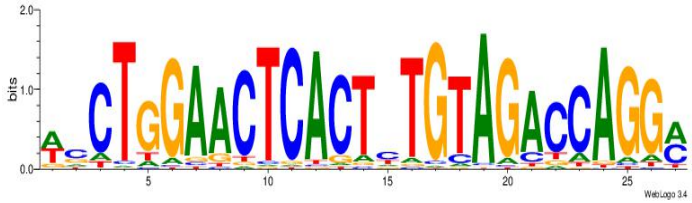
Reverse complement motif Consensus sequence: KCTGMSKTYGAMSTCASM



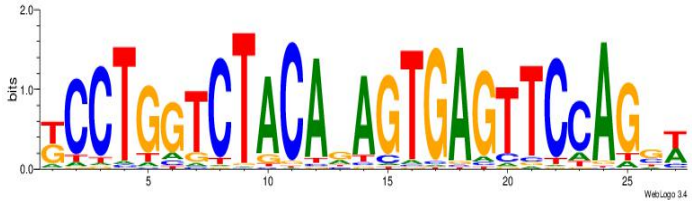
Dataset #:	1
Motif ID:	13
Motif name:	C013
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	14
Number of overlap:	13
Similarity score:	0.0058849

Alignment:
WVCTGGAACTCACTHTGTAGACCAGGM
----------YSTRGAWCTCASR-

Original motif Consensus sequence:
WVCTGGAACTCACTHTGTAGACCAGGM



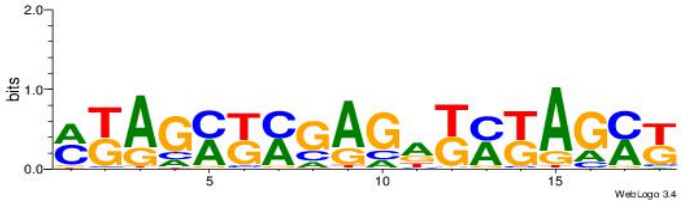
Reverse complement motif Consensus sequence:
YCCTGGTCTACADAGTGAGTTCCAGVW



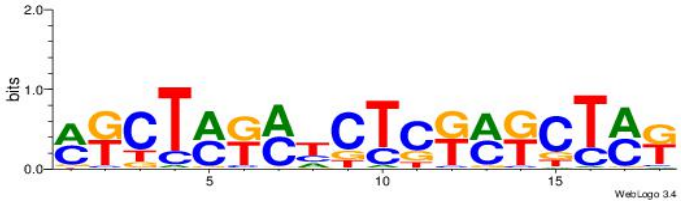
Dataset #:	1
Motif ID:	36
Motif name:	C036
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	13
Similarity score:	0.0245754

Alignment:
RRCTRRRTCTCRRRCTRY
-YSTRGAWCTCASR----

Original motif Consensus sequence: MKAGMKMGAGAKMKAGMK



Reverse complement motif Consensus sequence:
RRCTRRRTCTCRRRCTRY

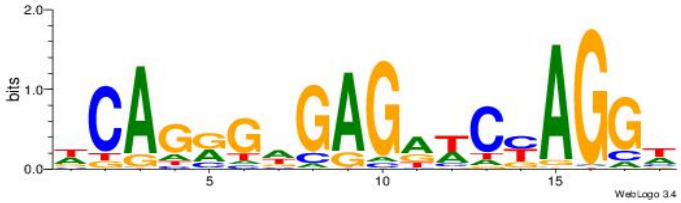


Dataset #:	1
Motif ID:	132
Motif name:	C132
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	13
Similarity score:	0.0272182

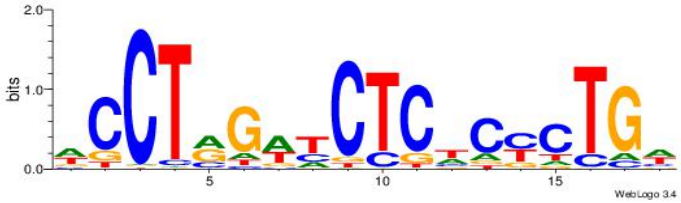
Alignment:

```
WCAGRGWGAGAWCYAGGW
----MSTGAGWTCMASK-
```

Original motif Consensus sequence: WCAGRGWGAGAWCYAGGW



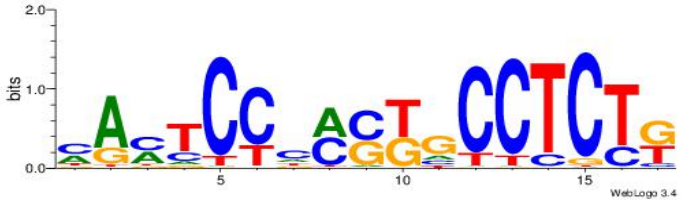
Reverse complement motif Consensus sequence: WCCTKGWTCTCWCMCTGW

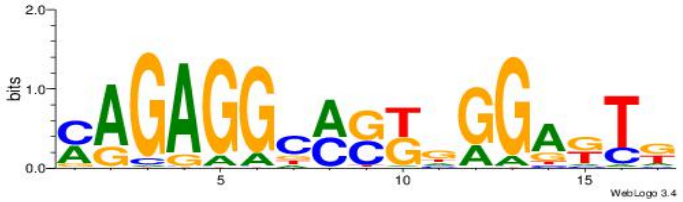


Dataset #: 1 Motif ID: 66 Motif name: C066

Original motif Consensus sequence: MAMTCCCMSKGCCTCTK

Reverse complement motif Consensus sequence: YAGAGGCRSYGGGARTR





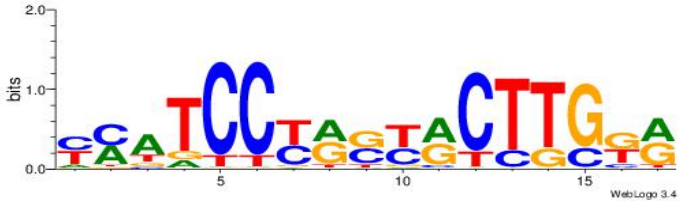
Best Matches for Motif ID 66 (Highest to Lowest)

Dataset #:	1
Motif ID:	141
Motif name:	C141
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.0307474

Alignment:

```
YMATCCYRSYRCTTGKR
MAMTCCCMSKGCCTCTK
```

Original motif Consensus sequence: YMATCCYRSYRCTTGKR



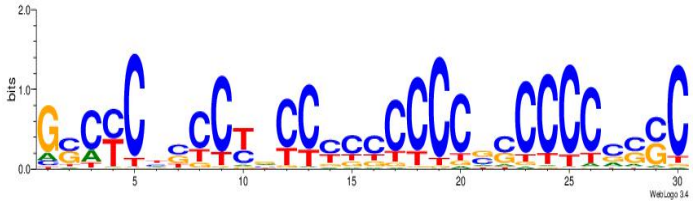
Reverse complement motif Consensus sequence: KYCAAGKMSKMGGATRK

Dataset #:	1
Motif ID:	3
Motif name:	C003
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	14
Number of overlap:	17
Similarity score:	0.0380115

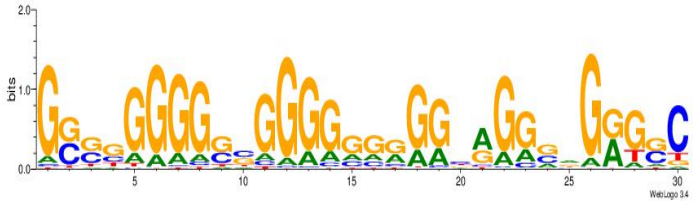
Alignment:

```
GSCYCHSCCYVCCYCCCCCCSSCCCCCSSC
MAMTCCCMSKGCCTCTK-------------
```

Original motif Consensus sequence:
GSCYCHSCCYVCCYCCCCCCSSCCCCCSSC



Reverse complement motif Consensus sequence:
GSSGGGGGSSGGGGGGKGGVMGGSHGKGSC

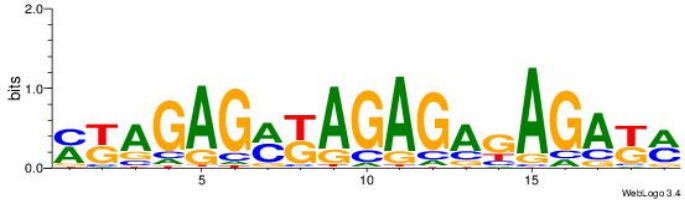


Dataset #:	1
Motif ID:	12
Motif name:	C012
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2

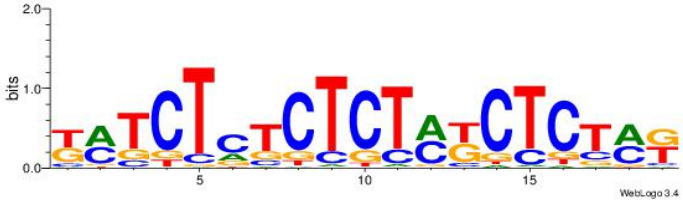
Number of overlap: 17
Similarity score: 0.0393707

Alignment:
MKAGAGMKAGAGAGAGAKM
-YAGAGGCRSYGGGARTR-

Original motif Consensus sequence: MKAGAGMKAGAGAGAGAKM



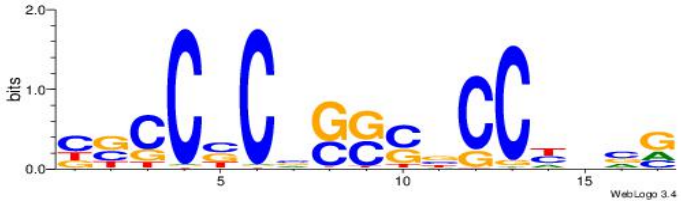
Reverse complement motif Consensus sequence: YRTCTCTCTCTRYCTCTRR



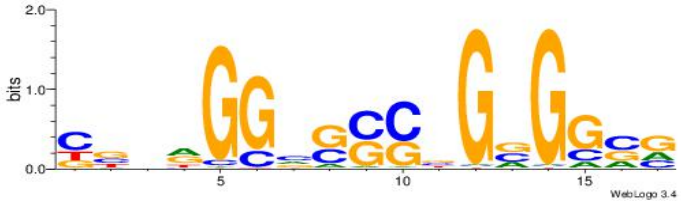
Dataset #: 1
Motif ID: 140
Motif name: C140
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 17
Similarity score: 0.04398

Alignment:
CVDMGGBSSSVGBGGSB
YAGAGGCRSYGGGARTR

Original motif Consensus sequence: BSCCBCVSSSBCCYHVG



Reverse complement motif Consensus sequence: CVDMGGBSSSVGBGGSB

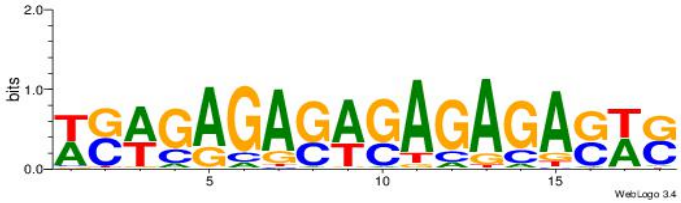


Dataset #:	1
Motif ID:	17
Motif name:	C017
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.045244

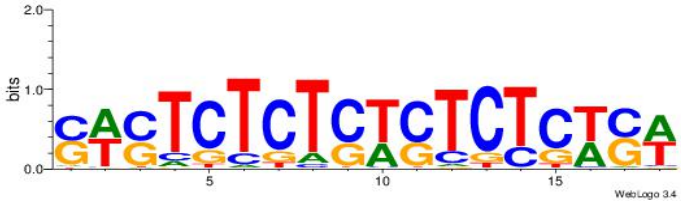
Alignment:

```
WSWGAGASWSAGAGASWS
YAGAGGCRSYGGGARTR-
```

Original motif Consensus sequence: WSWGAGASWSAGAGASWS

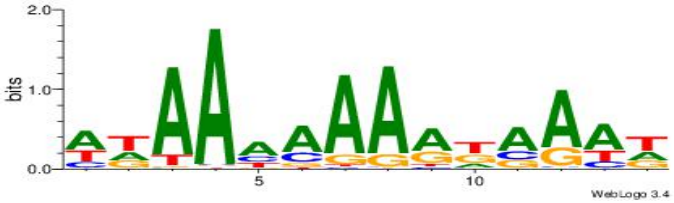


Reverse complement motif Consensus sequence: SWSTCTCTSWSTCTCWSW



Dataset #: 1 **Motif ID: 67** **Motif name: C067**

Original motif Consensus sequence: WDAAAAAARKAAAD



Reverse complement motif Consensus sequence: DTTTRKTTTTTTDW

Best Matches for Motif ID 67 (Highest to Lowest)

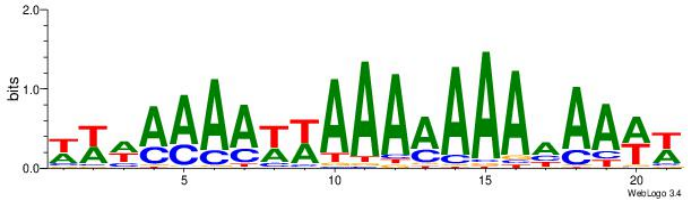
Dataset #:	1
Motif ID:	10
Motif name:	C010
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	14
Similarity score:	0.00893335

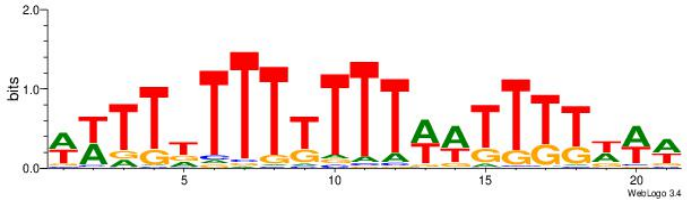
Alignment:

```
WWWAAAAWWAAAAAAAAAAWW
-------WDAAAAAARKAAAD
```

Original motif Consensus sequence: WWWAAAAWWAAAAAAAAAAWW

Reverse complement motif Consensus sequence: WWTTTTTTTTTTWWTTTTWWW

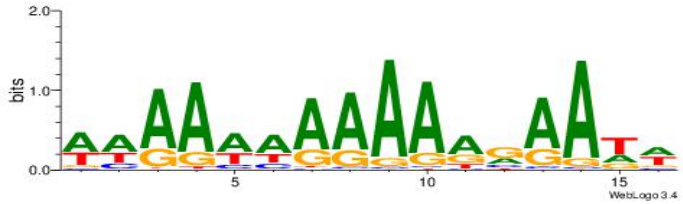




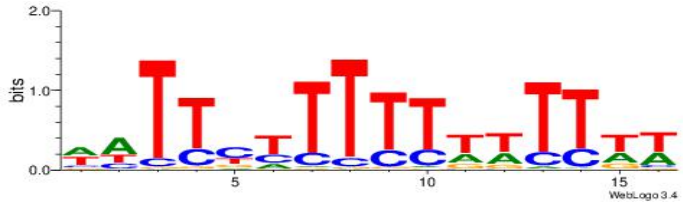
Dataset #: 1
Motif ID: 43
Motif name: C043
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 14
Similarity score: 0.0127065

Alignment:
WWAAWAAAAAARAATW
-WDAAAAAARKAAAD-

Original motif Consensus sequence: WWAAWAAAAAARAATW



Reverse complement motif Consensus sequence: WATTMTTTTTTWTTWW



Dataset #: 1

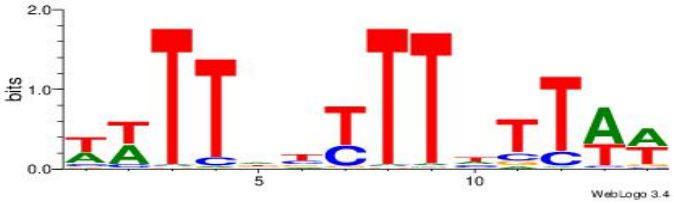
Motif ID:	131
Motif name:	C131
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.0175601

Alignment:

```
WWAADAARVHAAWW
WDAAAAAARKAAAD
```

Original motif Consensus sequence: WWAADAARVHAAWW

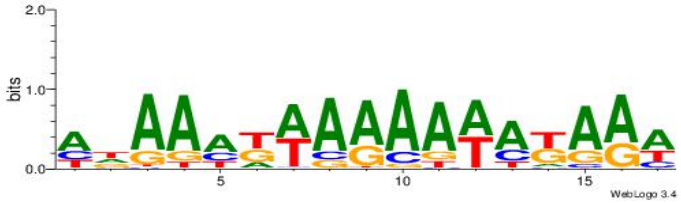
Reverse complement motif Consensus sequence: WWTTHBKTTDTTW



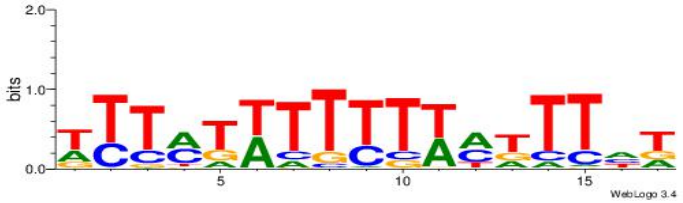
Dataset #:	1
Motif ID:	79
Motif name:	C079
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.0230592

Alignment:
WKTRTWTTTTWRTTTDT
---DTTTRKTTTTTTDW

Original motif Consensus sequence: ADAAAKWAAAAWAKARW



Reverse complement motif Consensus sequence: WKTRTWTTTTWRTTTDT

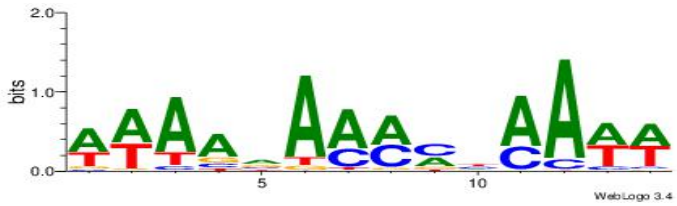


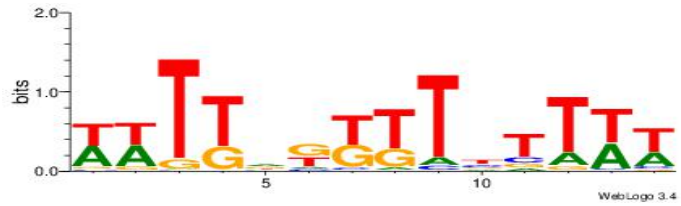
Dataset #:	1
Motif ID:	80
Motif name:	C080
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.023743

Alignment:
WWAAVAAMMHAAWW
WDAAAAAARKAAAD

Original motif Consensus sequence: WWAAVAAMMHAAWW

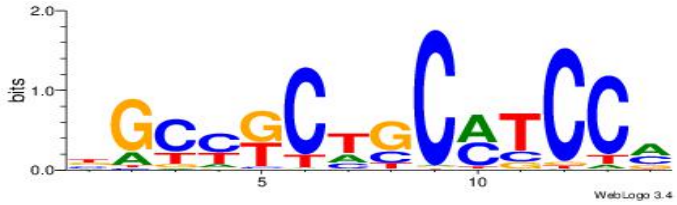
Reverse complement motif Consensus sequence: WWTTHRYTTBTTW



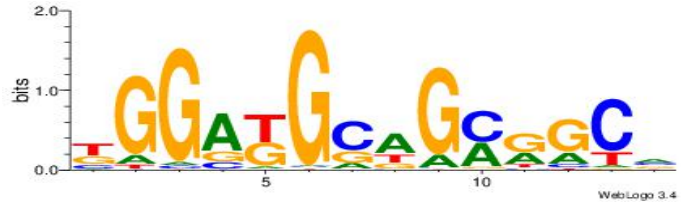


Dataset #: 1 **Motif ID: 68** **Motif name: C068**

Original motif Consensus sequence: BGCYKCTGCMTCCM



Reverse complement motif Consensus sequence: YGGAYGCAGYKGC



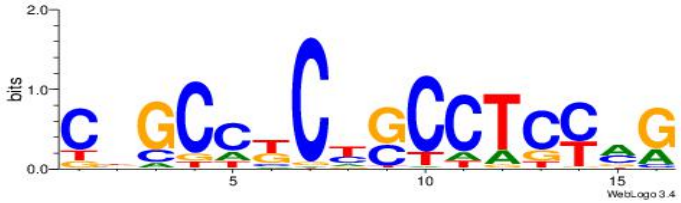
Best Matches for Motif ID 68 (Highest to Lowest)

Dataset #:	1
Motif ID:	50
Motif name:	C050
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0

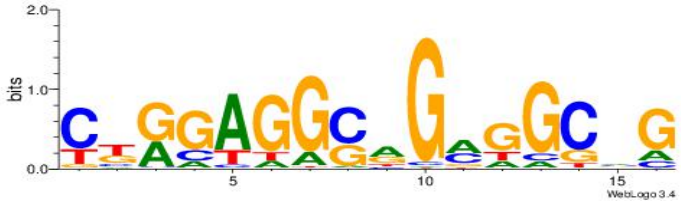
Alignment:

```
CBGCCKCYSCCTCYMG
-BGCYKCTGCMTCCM-
```

Original motif Consensus sequence: CBGCCKCYSCCTCYMG



Reverse complement motif Consensus sequence: CYKGAGGSMGRGGCVG

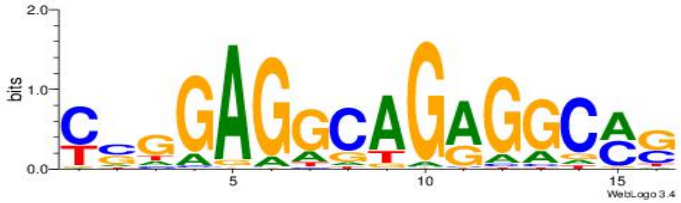


Dataset #:	1
Motif ID:	14
Motif name:	C014
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.0156792

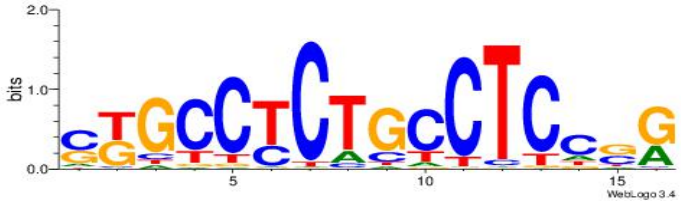
Alignment:

```
YSGGAGGCAGAGGCMS
-YGGAYGCAGYKGCV-
```

Original motif Consensus sequence: YSGGAGGCAGAGGCMS



Reverse complement motif Consensus sequence: SYGCCTCTGCCTCCSK

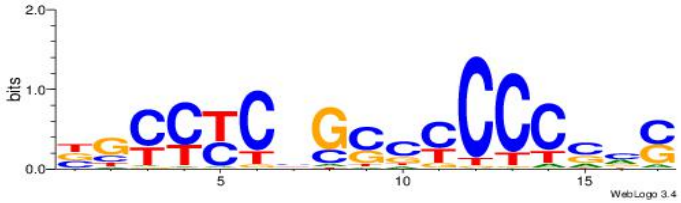


Dataset #:	1
Motif ID:	22
Motif name:	C022
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.0171497

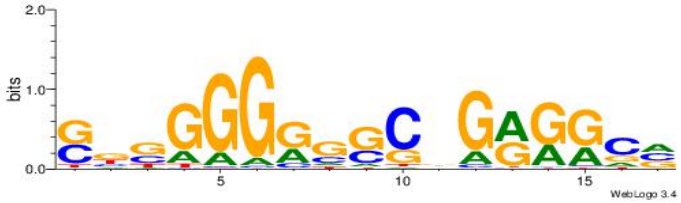
Alignment:

```
BGCCYCBGSCYCCCSVS
BGCYKCTGCMTCCM---
```

Original motif Consensus sequence: BGCCYCBGSCYCCCSVS



Reverse complement motif Consensus sequence: SVSGGGKGSCBGMGGCV



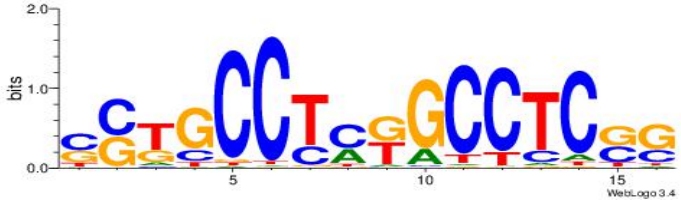
Dataset #:	1
Motif ID:	41
Motif name:	C041
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3

Number of overlap: 14
Similarity score: 0.0309487

Alignment:
CSGAGGCMKAGGCASS
--YGGAYGCAGYKGCV

Original motif Consensus sequence: CSGAGGCMKAGGCASS

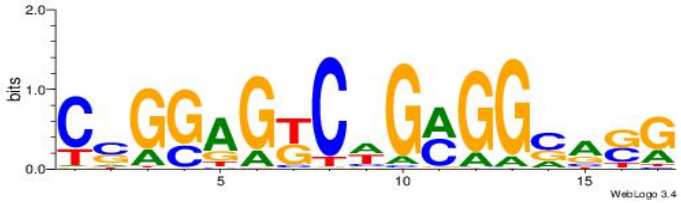
Reverse complement motif Consensus sequence: SSTGCCTYRGCCTCSG



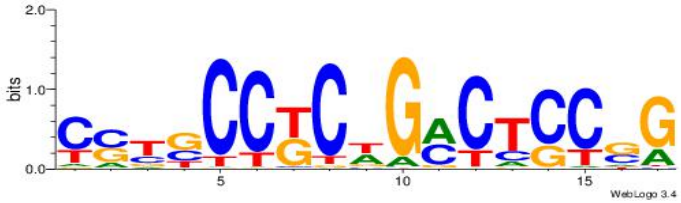
Dataset #: 1
Motif ID: 86
Motif name: C086
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 3
Number of overlap: 14
Similarity score: 0.0324714

Alignment:
CSTSCCYCWGRCTCCSG
--BGCYKCTGCMTCCM-

Original motif Consensus sequence: CSGGAGKCWGMGGSASG

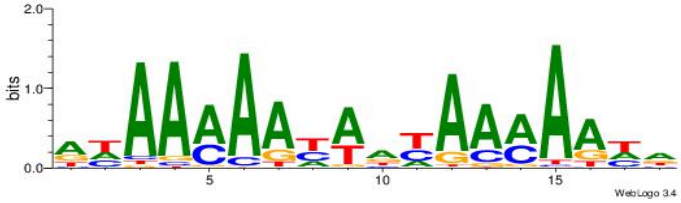


Reverse complement motif Consensus sequence: CSTSCCYCWGRCTCCSG

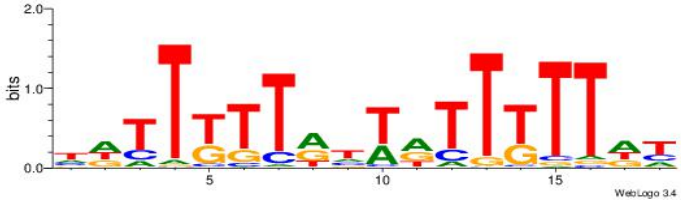


Dataset #: 1 Motif ID: 69 Motif name: C069

Original motif Consensus sequence: AHAAMAAYWDYAAMAAHD



Reverse complement motif Consensus sequence: DHTTYTTMDWMTTYTTHT

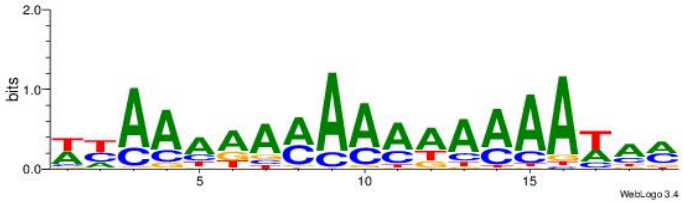


Best Matches for Motif ID 69 (Highest to Lowest)

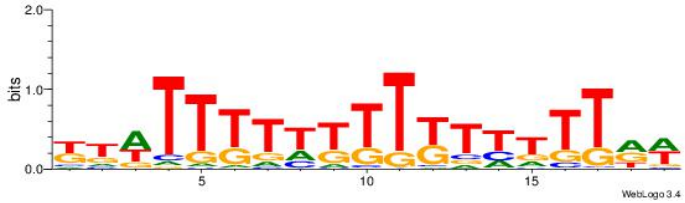
Dataset #:	1
Motif ID:	30
Motif name:	C030
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	18
Similarity score:	0.0195386

Alignment:
YTWTTTTTTTTTYTTTTTMW
-DHTTYTTMDWMTTYTTHT

Original motif Consensus sequence: WYAAAAAMAAAAAAAAWAM



Reverse complement motif Consensus sequence:
YTWTTTTTTTTYTTTTTMW

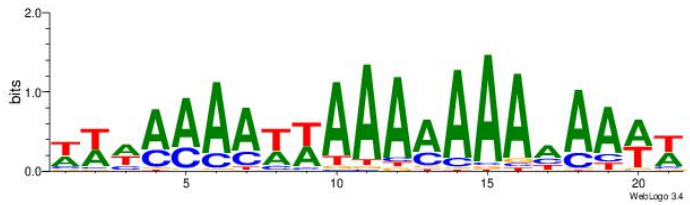


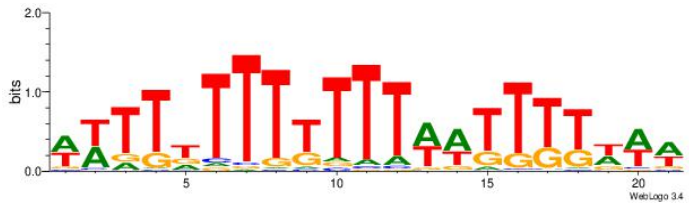
Dataset #:	1
Motif ID:	10
Motif name:	C010
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	18
Similarity score:	0.0236525

Alignment:
WWTTTTTTTTTTWWTTTTWWW
---DHTTYTTMDWMTTYTTHT

Original motif Consensus sequence: WWWAAAAWWAAAAAAAAAWW

Reverse complement motif Consensus sequence:
WWTTTTTTTTTTWWTTTTWWW





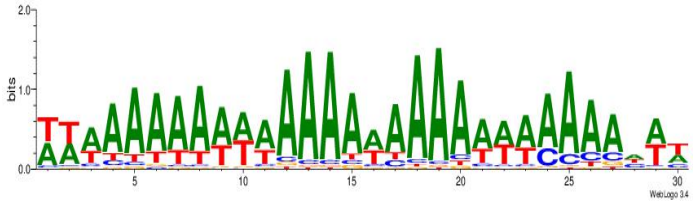
Dataset #:	1
Motif ID:	1
Motif name:	C001
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	12
Number of overlap:	18
Similarity score:	0.027345

Alignment:

```
WWWAAAAAWWAAAAAWAAAAAWWAAAAHWW
-----------AHAAMAAYWDYAAMAAHD-
```

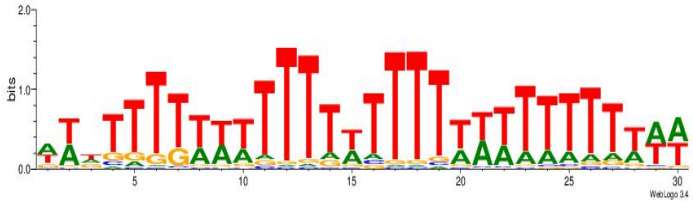
Original motif Consensus sequence:

WWWAAAAAWWAAAAAWAAAAAWWAAAAHWW



Reverse complement motif Consensus sequence:

WWHTTTTWWTTTTTWTTTTTWWTTTTTWWW



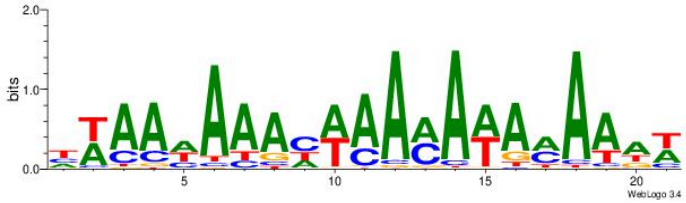
Dataset #:	1

Motif ID:	16
Motif name:	C016
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	18
Similarity score:	0.0364164

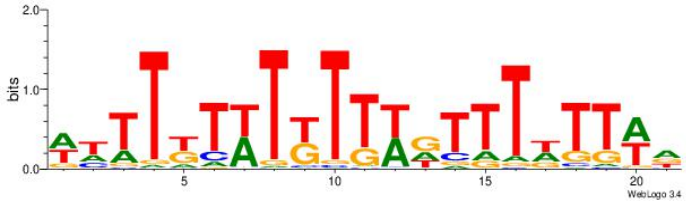
Alignment:

```
WWTTYTWTYTTWDTTTWTTWH
---DHTTYTTMDWMTTYTTHT
```

Original motif Consensus sequence: HWAAWAAAHWAAMAWAMAAWW



Reverse complement motif Consensus sequence: WWTTYTWTYTTWDTTTWTTWH

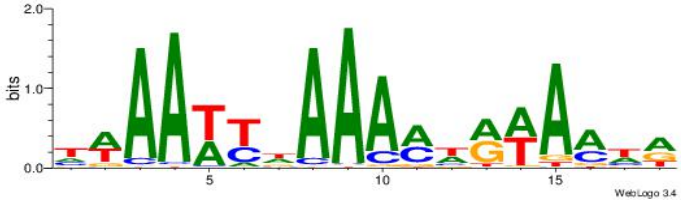


Dataset #:	1
Motif ID:	32
Motif name:	C032
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	18

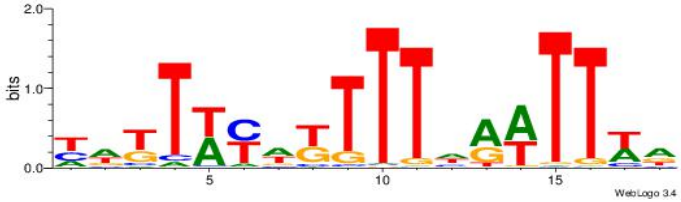
Similarity score: 0.0498109

Alignment:
HWAAWYDAAAMWRWAMWR
AHAAMAAYWDYAAMAAHD

Original motif Consensus sequence: HWAAWYDAAAMWRWAMWR



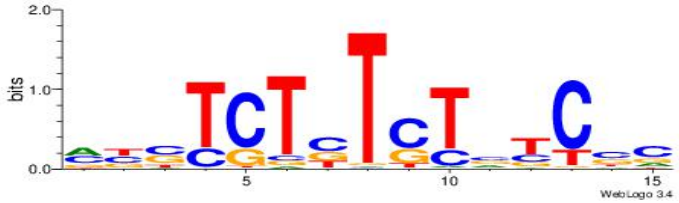
Reverse complement motif Consensus sequence: KWYTWKWYTTTDMWTTWH



Dataset #: 1 Motif ID: 70 Motif name: C070

Original motif Consensus sequence: GVGABAGAVAGASVK

Reverse complement motif Consensus sequence: RBSTCTVTCTBTCV



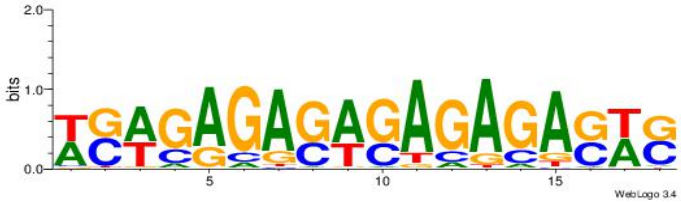
Best Matches for Motif ID 70 (Highest to Lowest)

Dataset #:	1
Motif ID:	17
Motif name:	C017
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif

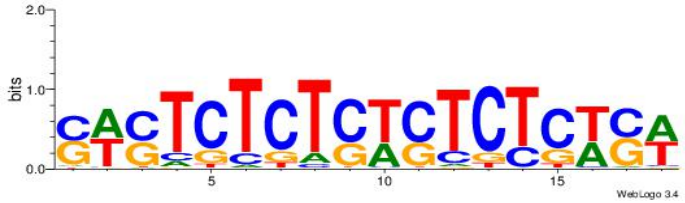
Direction:	Forward
Position number:	4
Number of overlap:	15
Similarity score:	0.00174543

Alignment:
WSWGAGASWSAGAGASWS
---GVGABAGAVAGASVK

Original motif Consensus sequence: WSWGAGASWSAGAGASWS



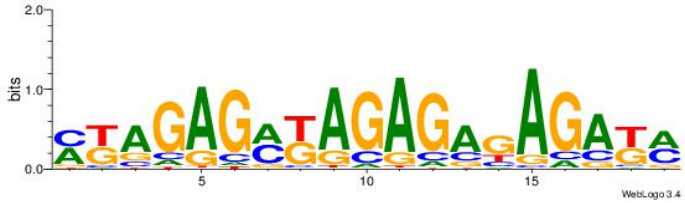
Reverse complement motif Consensus sequence: SWSTCTCTSWSTCTCWSW



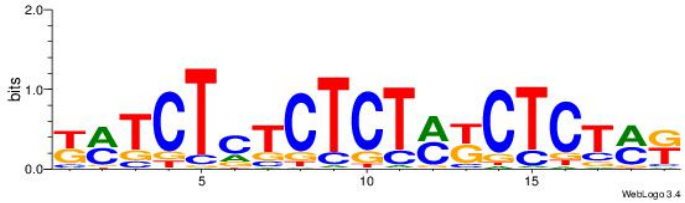
Dataset #:	1
Motif ID:	12
Motif name:	C012
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	15
Similarity score:	0.0027757

Alignment:
MKAGAGMKAGAGAGAGAKM
---GVGABAGAVAGASVK-

Original motif Consensus sequence: MKAGAGMKAGAGAGAGAKM



Reverse complement motif Consensus sequence: YRTCTCTCTCTRYCTCTRR

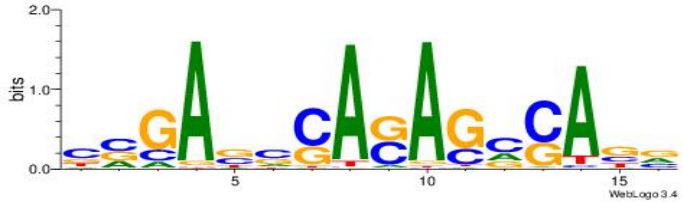


Dataset #:	1
Motif ID:	28
Motif name:	C028
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	15
Similarity score:	0.00931002

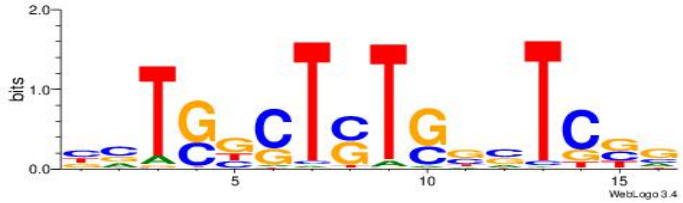
Alignment:

```
BVGASSCASAGVSABV
GVGABAGAVAGASVK-
```

Original motif Consensus sequence: BVGASSCASAGVSABV



Reverse complement motif Consensus sequence: VBTSVCTSTGSSTCVB

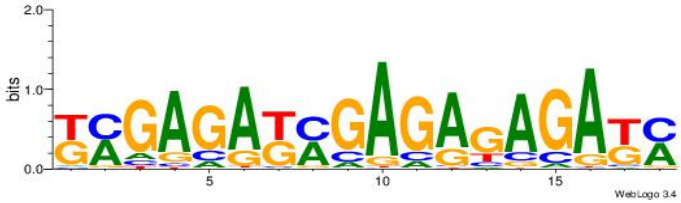


Dataset #:	1
Motif ID:	11
Motif name:	C011
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	15
Similarity score:	0.0117141

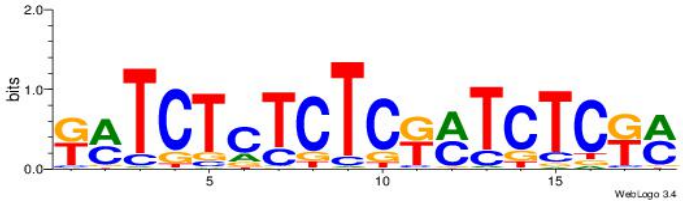
Alignment:

```
KMGAGAKMGAGAGAGAKM
--GVGABAGAVAGASVK-
```

Original motif Consensus sequence: KMGAGAKMGAGAGAGAKM



Reverse complement motif Consensus sequence: RRTCTCTCTCRRTCTCRR

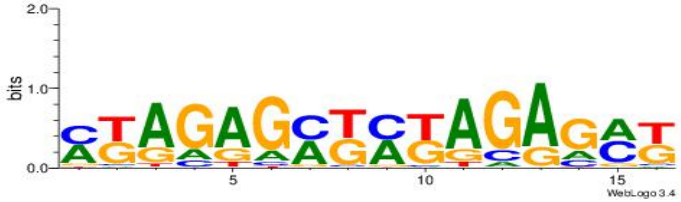


Dataset #:	1
Motif ID:	55
Motif name:	C055
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2

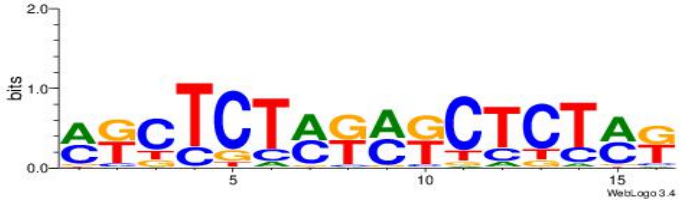
Number of overlap: 15
Similarity score: 0.0176331

Alignment:
MKAGAGMKMKAGAGMK
-GVGABAGAVAGASVK

Original motif Consensus sequence: MKAGAGMKMKAGAGMK

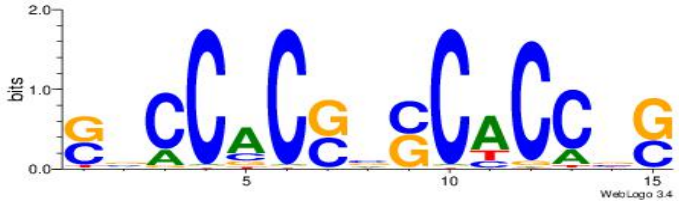


Reverse complement motif Consensus sequence: RYCTCTRRRRCTCTRR

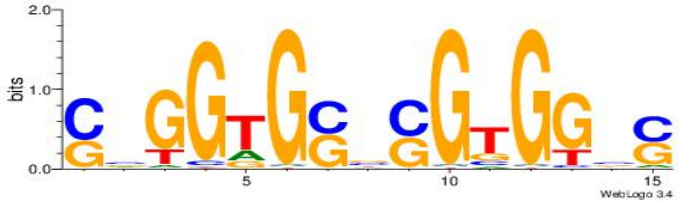


Dataset #: 1 Motif ID: 71 Motif name: C071

Original motif Consensus sequence: SVCCACSVSCACCBS



Reverse complement motif Consensus sequence: SBGGTGSVSGTGG



Best Matches for Motif ID 71 (Highest to Lowest)

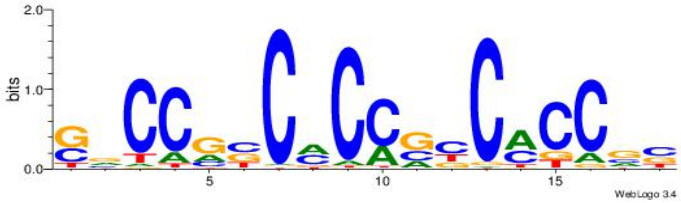
Dataset #: 1
Motif ID: 37
Motif name: C037
Matching format of first motif: Original Motif

Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	15
Similarity score:	0.0255433

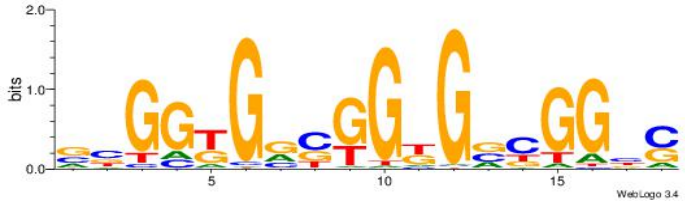
Alignment:

```
SVCCGBCMCCSYCMCCVB
---SVCCACSVSCACCBS
```

Original motif Consensus sequence: SVCCGBCMCCSYCMCCVB



Reverse complement motif Consensus sequence: BVGGYGKSGGYGBCGGVS

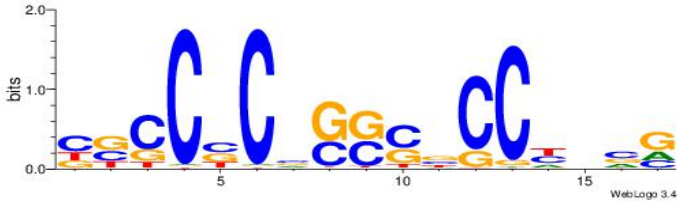


Dataset #:	1
Motif ID:	140
Motif name:	C140
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	15
Similarity score:	0.0303823

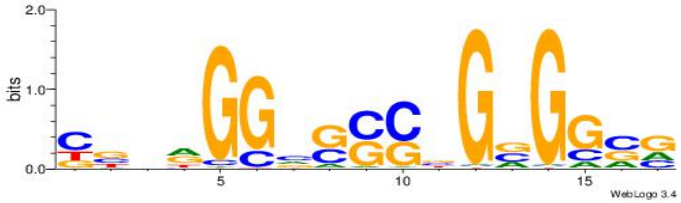
Alignment:

CVDMGGBSSSVGBGGSB
--SBGGTGSVSGTGGVS

Original motif Consensus sequence: BSCCBCVSSSBCCYHVG



Reverse complement motif Consensus sequence: CVDMGGBSSSVGBGGSB

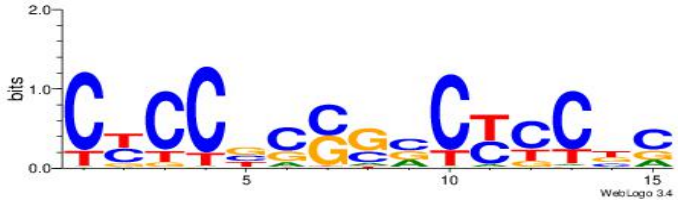


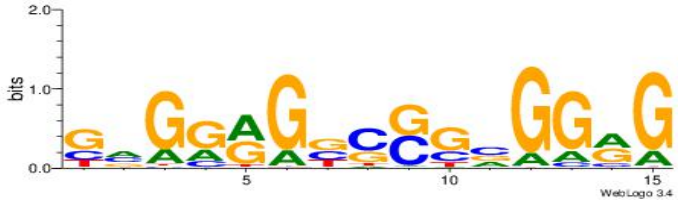
Dataset #:	1
Motif ID:	58
Motif name:	C058
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	15
Similarity score:	0.0375954

Alignment:
GVGGMGVCSGBGGMG
SBGGTGSVSGTGGVS

Original motif Consensus sequence: CYCCBCSGVCYCCBC

Reverse complement motif Consensus sequence: GVGGMGVCSGBGGMG



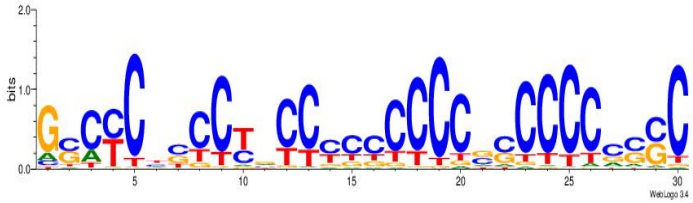


Dataset #:	1
Motif ID:	3
Motif name:	C003
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	15
Number of overlap:	15
Similarity score:	0.0381134

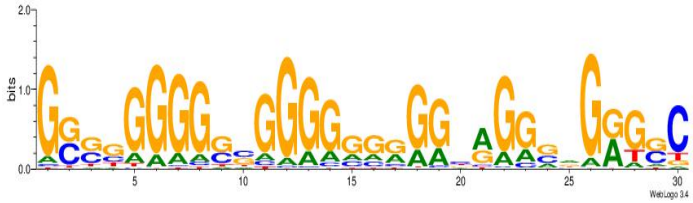
Alignment:

```
GSCYCHSCCYVCCYCCCCCCSSCCCCCSSC
--------------SVCCACSVSCACCBS-
```

Original motif Consensus sequence:
GSCYCHSCCYVCCYCCCCCCSSCCCCCSSC



Reverse complement motif Consensus sequence:
GSSGGGGGSSGGGGGGKGGVMGGSHGKGSC



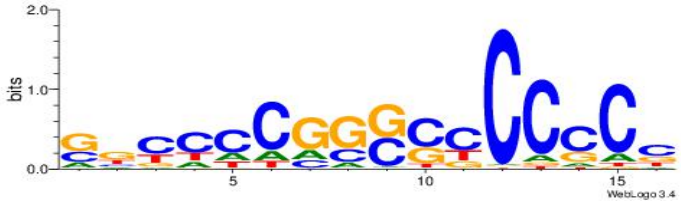
Dataset #:	1

Motif ID:	77
Motif name:	C077
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	15
Similarity score:	0.0419016

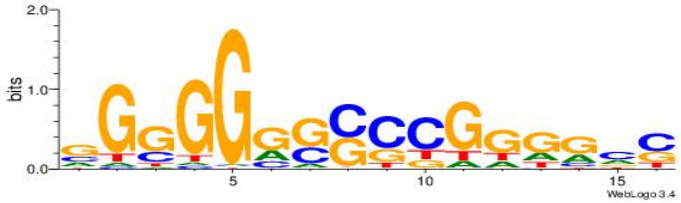
Alignment:

```
SBCCCCGGSSCCCCCB
SVCCACSVSCACCBS-
```

Original motif Consensus sequence: SBCCCCGGSSCCCCCB

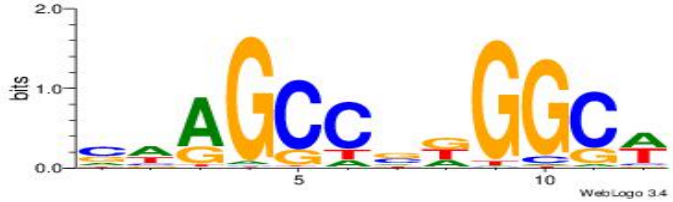


Reverse complement motif Consensus sequence: BGGGGGSSCCGGGGBS

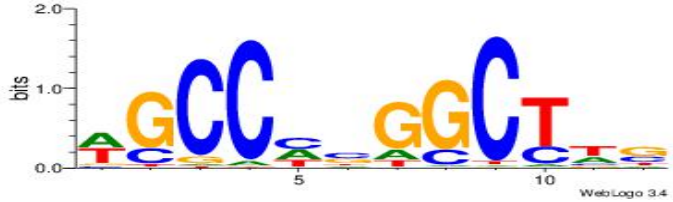


Dataset #: 1 Motif ID: 72 Motif name: C072

Original motif Consensus sequence: SWAGCCVDGGCW



Reverse complement motif Consensus sequence: WGCCHVGGCTWS



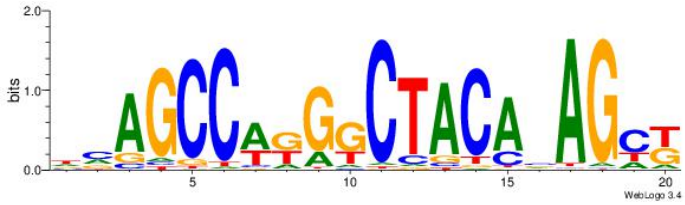
Best Matches for Motif ID 72 (Highest to Lowest)

Dataset #:	1
Motif ID:	15
Motif name:	C015
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	12
Similarity score:	0.0223323

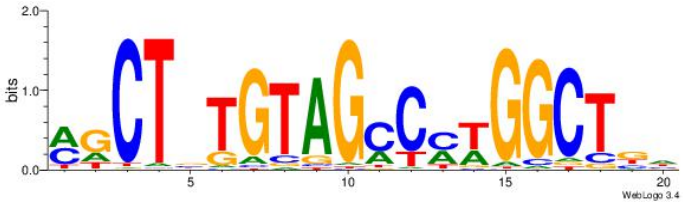
Alignment:

```
DVAGCCWKGGCTACAVAGCK
------WGCCHVGGCTWS--
```

Original motif Consensus sequence: DVAGCCWKGGCTACAVAGCK



Reverse complement motif Consensus sequence: RGCTVTGTAGCCYWGGCTVD



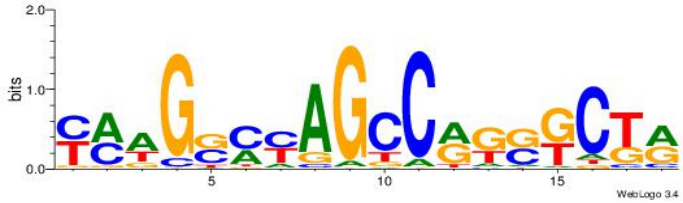
Dataset #:	1
Motif ID:	73
Motif name:	C073
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement

Direction:	Backward
Position number:	6
Number of overlap:	12
Similarity score:	0.0235561

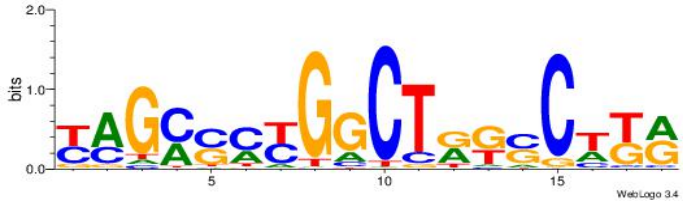
Alignment:

```
KAGYSYKGGCTKRSCWYK
-WGCCHVGGCTWS-----
```

Original motif Consensus sequence: YMWGSMYAGCCRKSKCTR



Reverse complement motif Consensus sequence: KAGYSYKGGCTKRSCWYK

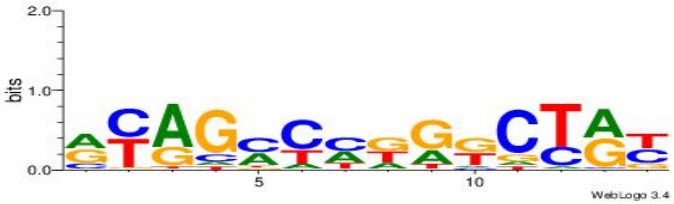


Dataset #:	1
Motif ID:	45
Motif name:	C045
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.0249484

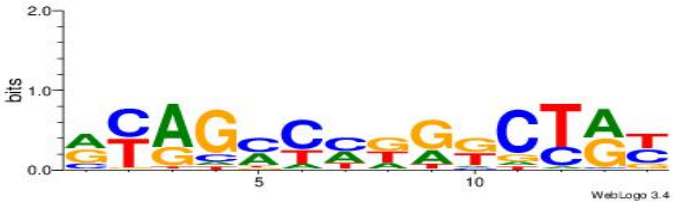
Alignment:

```
MKAGYCYRGRCTKK
--WGCCHVGGCTWS
```

Original motif Consensus sequence: RYAGMCMKGKCTRY



Reverse complement motif Consensus sequence: MKAGYCYRGRCTK



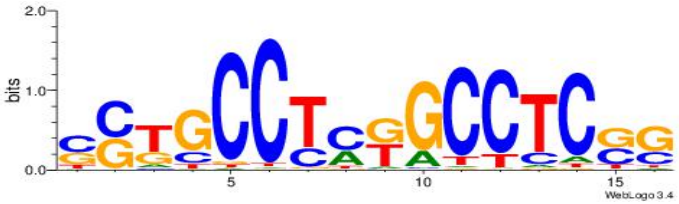
Dataset #:	1
Motif ID:	41
Motif name:	C041
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.0280879

Alignment:

```
CSGAGGCMKAGGCASS
--SWAGCCVDGGCW--
```

Original motif Consensus sequence: CSGAGGCMKAGGCASS

Reverse complement motif Consensus sequence: SSTGCCTYRGCCTCSG

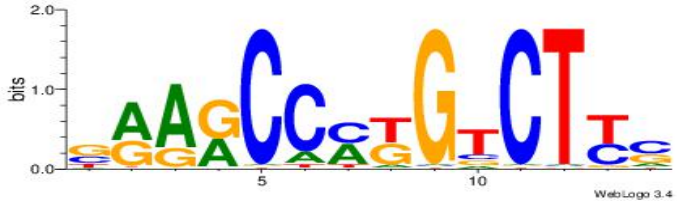


Dataset #:	1
Motif ID:	114
Motif name:	C114
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.0292595

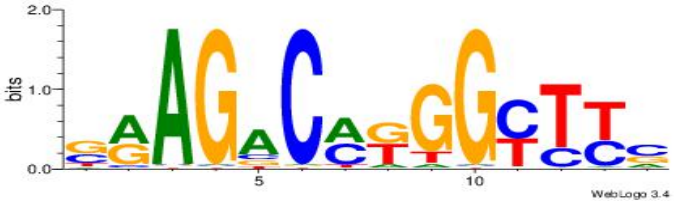
Alignment:

```
SMAGACRRGGMTKS
SWAGCCVDGGCW--
```

Original motif Consensus sequence: SRARCCMKGTCTYS



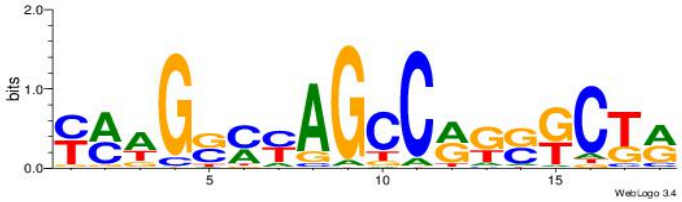
Reverse complement motif Consensus sequence: SMAGACRRGGMTK

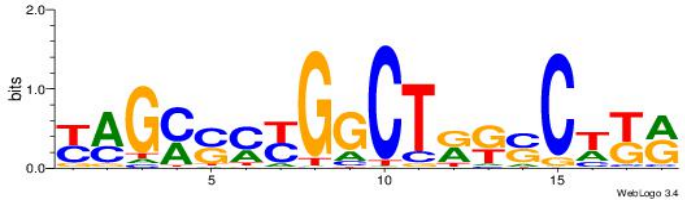


Dataset #: 1 Motif ID: 73 Motif name: C073

Original motif Consensus sequence: YMWGSMYAGCCRKSKCTR

Reverse complement motif Consensus sequence: KAGYSYKGGCTKRSCWYK





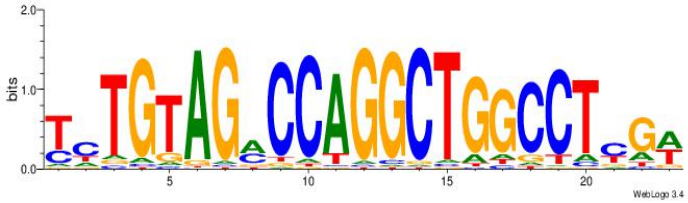
Best Matches for Motif ID 73 (Highest to Lowest)

Dataset #:	1
Motif ID:	5
Motif name:	C005
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.0198254

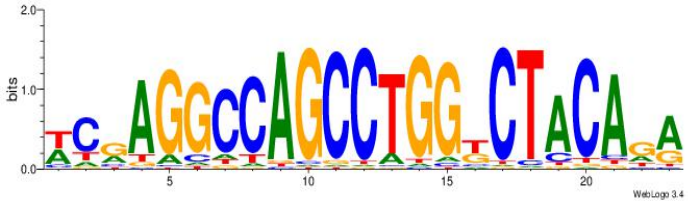
Alignment:

```
WCKAGGCCAGCCTGGYCTACAGA
----YMWGSMYAGCCRKSKCTR-
```

Original motif Consensus sequence: TCTGTAGMCCAGGCTGGCCTYGW



Reverse complement motif Consensus sequence: WCKAGGCCAGCCTGGYCTACAGA

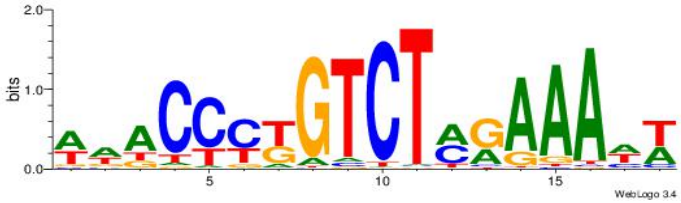


Dataset #:	1
Motif ID:	35
Motif name:	C035
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.0398689

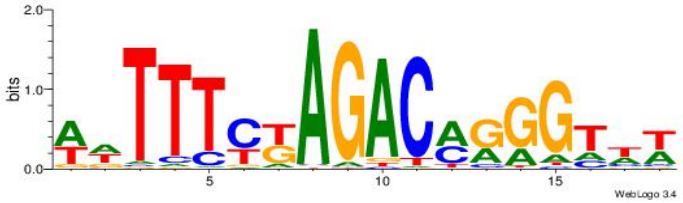
Alignment:

```
WWACCYKGTCTMRAAAWW
KAGYSYKGGCTKRSCWYK
```

Original motif Consensus sequence: WWACCYKGTCTMRAAAWW



Reverse complement motif Consensus sequence: WWTTTMYAGACRKGGTWW

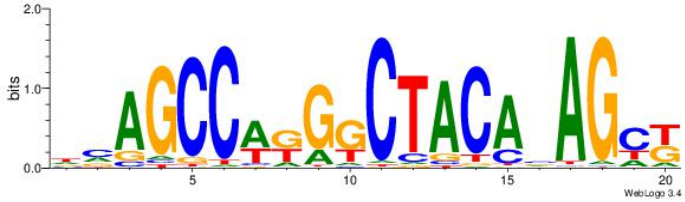


Dataset #:	1
Motif ID:	15
Motif name:	C015
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2

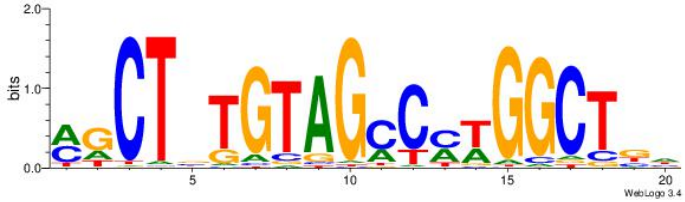
Number of overlap: 18
Similarity score: 0.0475642

Alignment:
DVAGCCWKGGCTACAVAGCK
-KAGYSYKGGCTKRSCWYK-

Original motif Consensus sequence: DVAGCCWKGGCTACAVAGCK



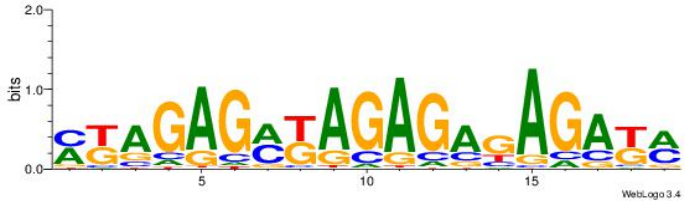
Reverse complement motif Consensus sequence: RGCTVTGTAGCCYWGGCTVD



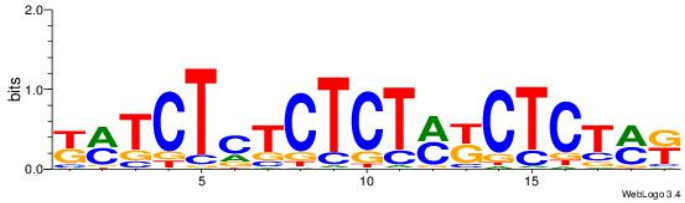
Dataset #: 1
Motif ID: 12
Motif name: C012
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 18
Similarity score: 0.0491912

Alignment:
MKAGAGMKAGAGAGAGAKM
KAGYSYKGGCTKRSCWYK-

Original motif Consensus sequence: MKAGAGMKAGAGAGAGAKM



Reverse complement motif Consensus sequence: YRTCTCTCTCTRYCTCTRR

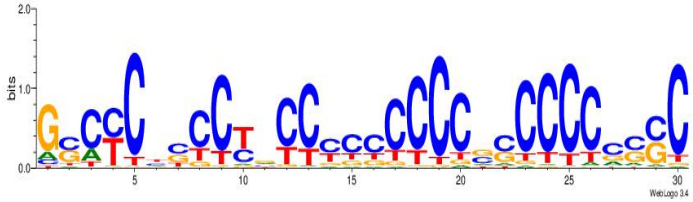


Dataset #:	1
Motif ID:	3
Motif name:	C003
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	18
Similarity score:	0.0508027

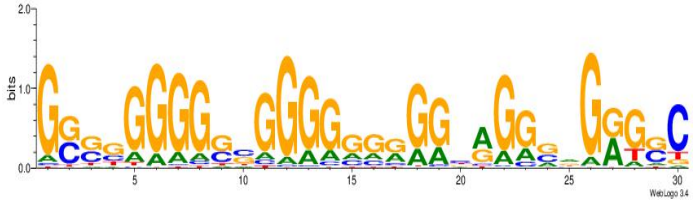
Alignment:

```
GSSGGGGGSSGGGGGGKGGVMGGSHGKGSC
----------KAGYSYKGGCTKRSCWYK--
```

Original motif Consensus sequence: GSCYCHSCCYVCCYCCCCCCSSCCCCCSSC

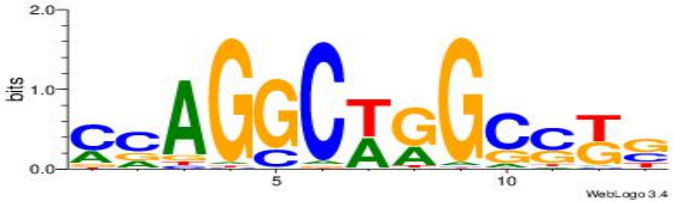


Reverse complement motif Consensus sequence: GSSGGGGGSSGGGGGGKGGVMGGSHGKGSC

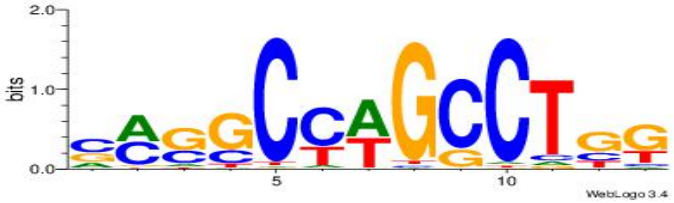


Dataset #: 1 **Motif ID: 74** **Motif name: C074**

Original motif Consensus sequence: CCAGGCWGGCSKS



Reverse complement motif Consensus sequence: SRSGCCWGCCTGG



Best Matches for Motif ID 74 (Highest to Lowest)

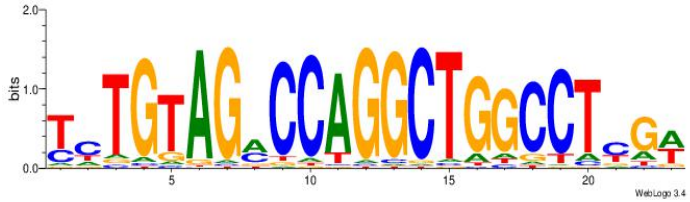
Dataset #:	1
Motif ID:	5
Motif name:	C005
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	13
Similarity score:	0.0135877

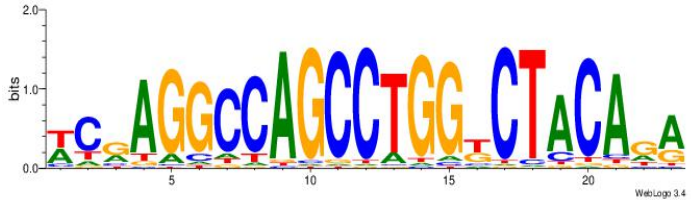
Alignment:

```
WCKAGGCCAGCCTGGYCTACAGA
--SRSGCCWGCCTGG--------
```

Original motif Consensus sequence: TCTGTAGMCCAGGCTGGCCTYGW

Reverse complement motif Consensus sequence: WCKAGGCCAGCCTGGYCTACAGA



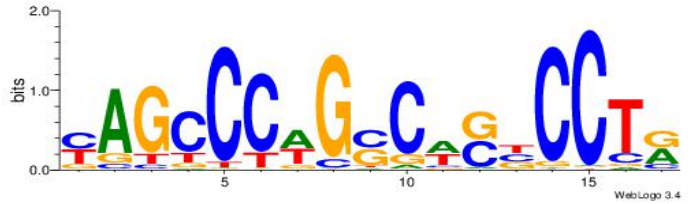


Dataset #:	1
Motif ID:	122
Motif name:	C122
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.0216217

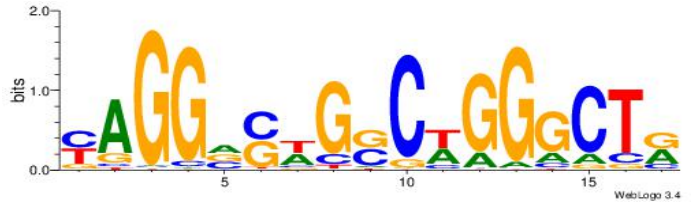
Alignment:

```
MAGGVSWGSCWGGGCTK
----CCAGGCWGGCSKS
```

Original motif Consensus sequence: YAGCCCWGSCWSBCCTR



Reverse complement motif Consensus sequence: MAGGVSWGSCWGGGCTK



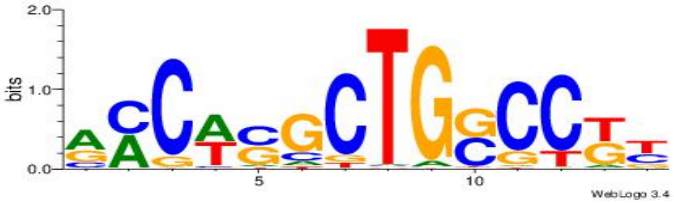
Dataset #:	1

Motif ID:	109
Motif name:	C109
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.0278174

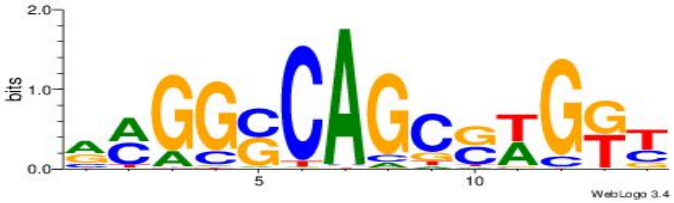
Alignment:

```
RMCWSGCTGSCCKY
-CCAGGCWGGCSKS
```

Original motif Consensus sequence: RMCWSGCTGSCCKY



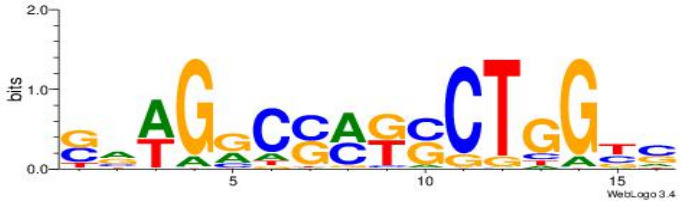
Reverse complement motif Consensus sequence: MRGGSCAGCSWG



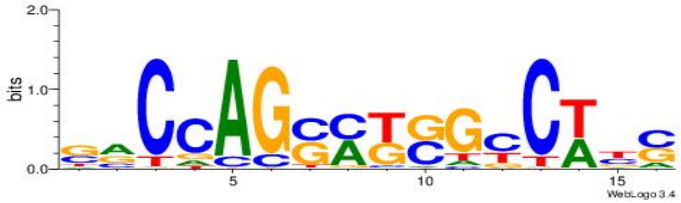
Dataset #:	1
Motif ID:	126
Motif name:	C126
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.0314484

Alignment:
SMCCAGSYYSGMCWBS
--CCAGGCWGGCSKS-

Original motif Consensus sequence: SVWGRCSMKSCTGGYS



Reverse complement motif Consensus sequence: SMCCAGSYYSGMCWBS

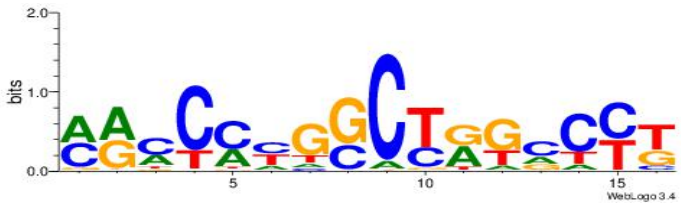


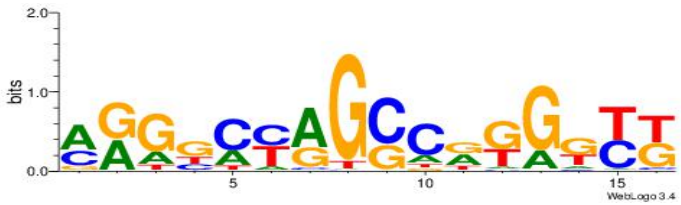
Dataset #:	1
Motif ID:	96
Motif name:	C096
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	13
Similarity score:	0.031654

Alignment:
RKGGCMMGSCKRGRKY
SRSGCCWGCCTGG---

Original motif Consensus sequence: MRMCMYGSCYRGCCYK

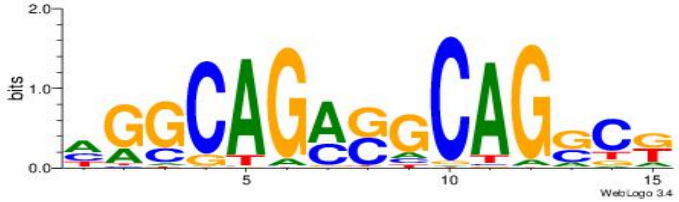
Reverse complement motif Consensus sequence: RKGGCMMGSCKRGRKY



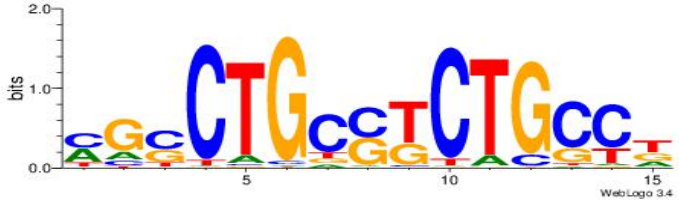


Dataset #: 1 Motif ID: 75 Motif name: C075

Original motif Consensus sequence: MGGCAGMSGCAGSCK



Reverse complement motif Consensus sequence: YGSCTGCSYCTGC



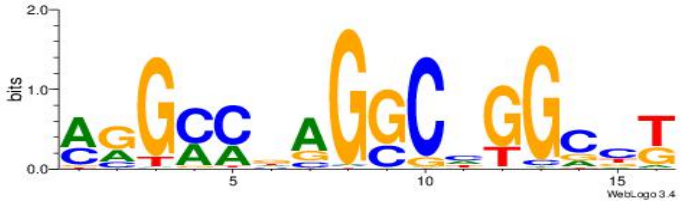
Best Matches for Motif ID 75 (Highest to Lowest)

Dataset #:	1
Motif ID:	61
Motif name:	C061
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	15
Similarity score:	0.0391975

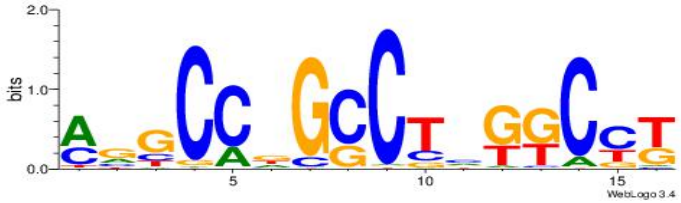
Alignment:

```
MRGMMBAGGCHGGCCK
MGGCAGMSGCAGSCK-
```

Original motif Consensus sequence: MRGMMBAGGCHGGCCK



Reverse complement motif Consensus sequence: RGGCCDGCCTBRRCMY

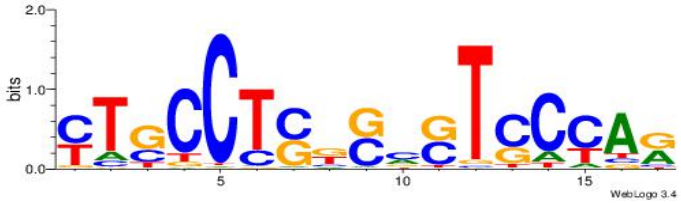


Dataset #:	1
Motif ID:	101
Motif name:	C101
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	15
Similarity score:	0.0421955

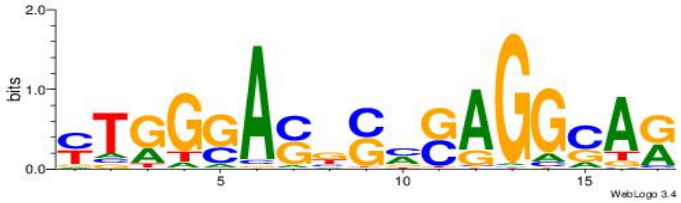
Alignment:

```
YTSCCTSKSVSTCCCAR
-YGSCTGCSYCTGCCY-
```

Original motif Consensus sequence: YTSCCTSKSVSTCCCAR



Reverse complement motif Consensus sequence: MTGGGASVSYSAGGSAK

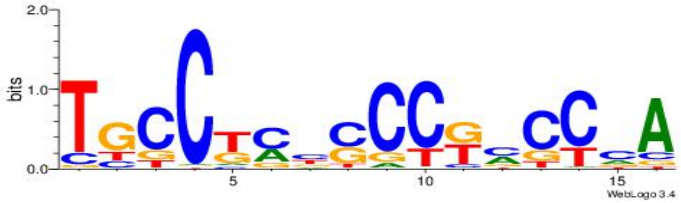


Dataset #:	1
Motif ID:	105
Motif name:	C105
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	15
Similarity score:	0.0441642

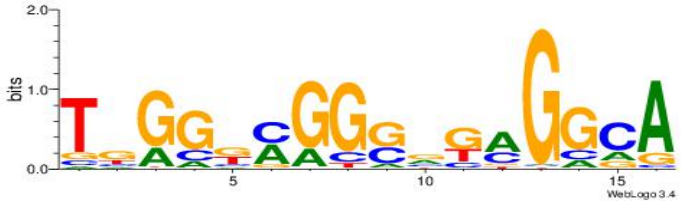
Alignment:

```
TGCCKMBSCCKMCCVA
YGSCTGCSYCTGCCY-
```

Original motif Consensus sequence: TGCCKMBSCCKMCCVA



Reverse complement motif Consensus sequence: TVGGRYGGSBRRGGCA

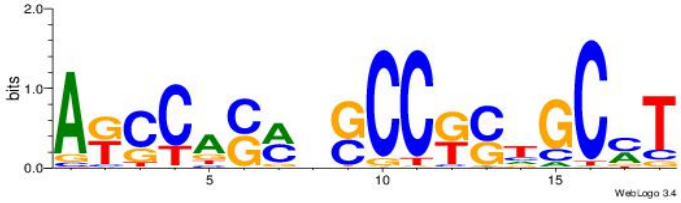


Dataset #:	1
Motif ID:	93
Motif name:	C093
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

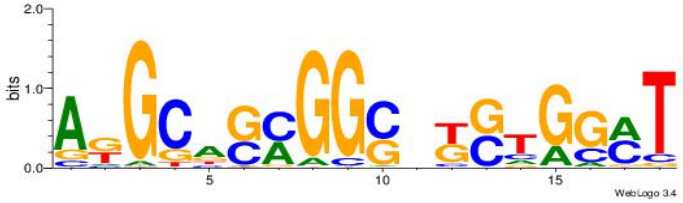
Number of overlap: 15
Similarity score: 0.0450077

Alignment:
AKCCASMBSCCKSTGCMT
---YGSCTGCSYCTGCCY

Original motif Consensus sequence: AKCCASMBSCCKSTGCMT



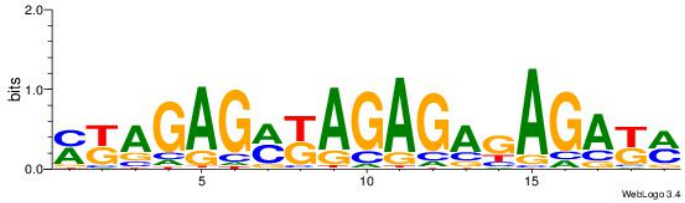
Reverse complement motif Consensus sequence: ARGCASYGGSVYSTGGYT



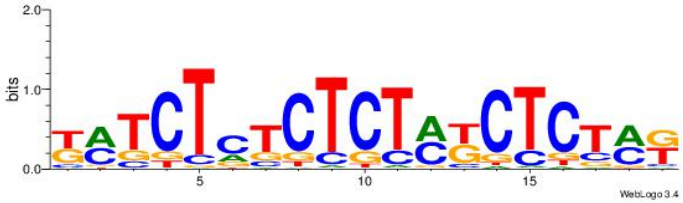
Dataset #: 1
Motif ID: 12
Motif name: C012
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 5
Number of overlap: 15
Similarity score: 0.0478052

Alignment:
YRTCTCTCTCTRYCTCTRR
YGSCTGCSYCTGCCY----

Original motif Consensus sequence: MKAGAGMKAGAGAGAGAKM

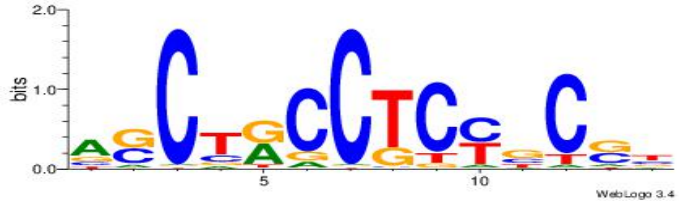


Reverse complement motif Consensus sequence: YRTCTCTCTCTRYCTCTRR

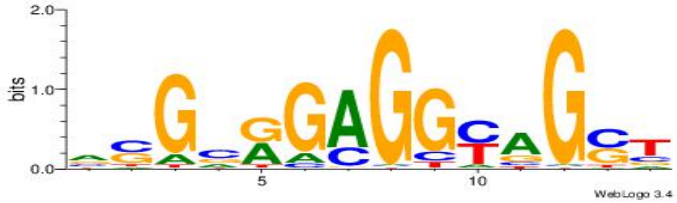


Dataset #: 1 Motif ID: 76 Motif name: C076

Original motif Consensus sequence: ASCTRCCTCYBCSB



Reverse complement motif Consensus sequence: VSGBKGAGGMAGS



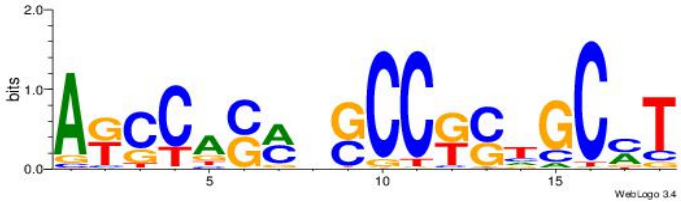
Best Matches for Motif ID 76 (Highest to Lowest)

Dataset #:	1
Motif ID:	93
Motif name:	C093
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.0144167

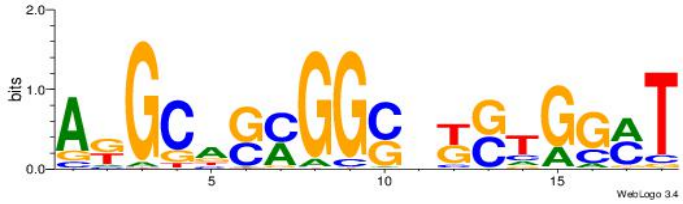
Alignment:

AKCCASMBSCCKSTGCMT
----ASCTRCCTCYBCSB

Original motif Consensus sequence: AKCCASMBSCCKSTGCMT



Reverse complement motif Consensus sequence: ARGCASYGGSVYSTGGYT

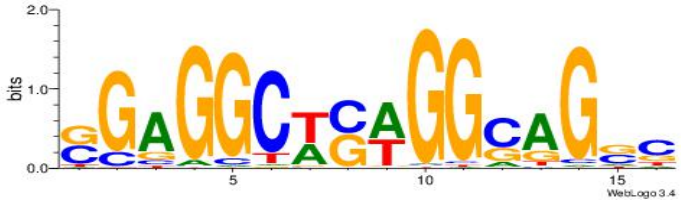


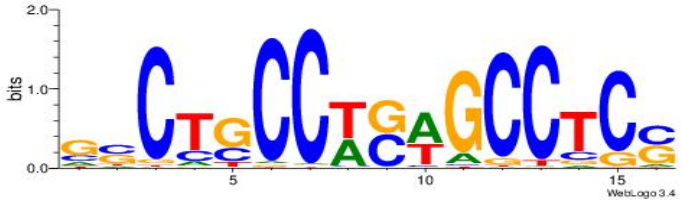
Dataset #:	1
Motif ID:	48
Motif name:	C048
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	14
Similarity score:	0.01751

Alignment:
GSCTGCCWSWGCCTCS
--ASCTRCCTCYBCSB

Original motif Consensus sequence: SGAGGCWSWGGCAGSC

Reverse complement motif Consensus sequence: GSCTGCCWSWGCCTCS



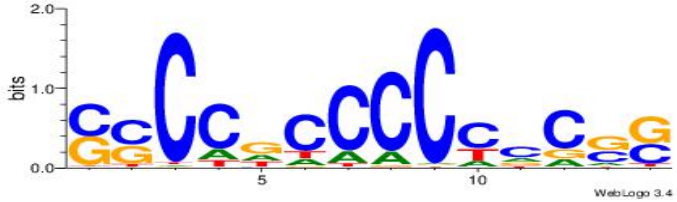


Dataset #:	1
Motif ID:	54
Motif name:	C054
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.0206235

Alignment:

```
SSGGGGGGGHGGSS
VSGBKGAGGMAGST
```

Original motif Consensus sequence: SSCCDCCCCCCCSS



Reverse complement motif Consensus sequence: SSGGGGGGGHGG

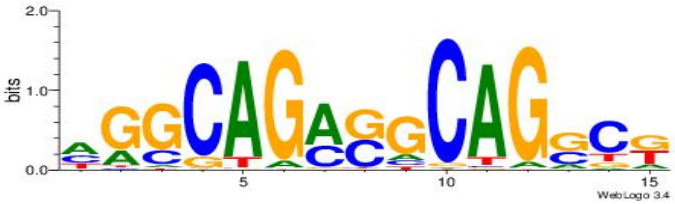
Dataset #:	1
Motif ID:	75

Motif name:	C075
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.0240004

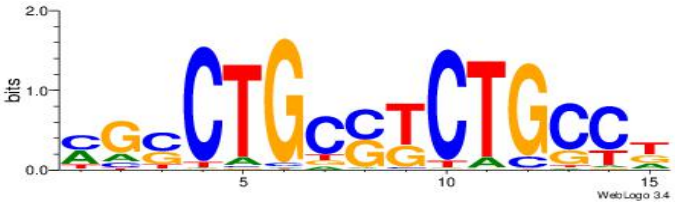
Alignment:

```
MGGCAGMSGCAGSCK
-VSGBKGAGGMAGST
```

Original motif Consensus sequence: MGGCAGMSGCAGSCK



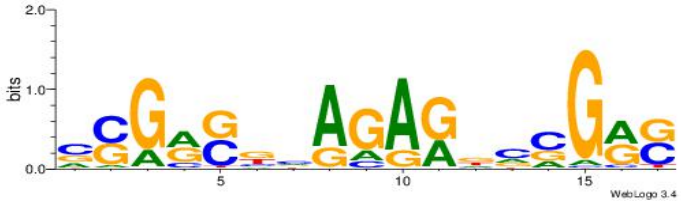
Reverse complement motif Consensus sequence: YGSCTGCSYCTGC



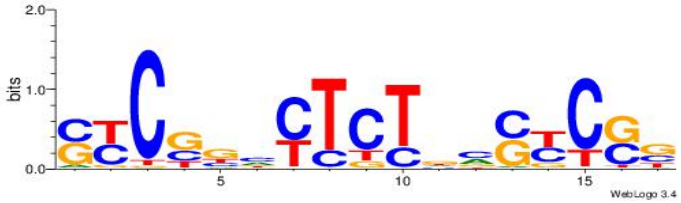
Dataset #:	1
Motif ID:	85
Motif name:	C085
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	14
Similarity score:	0.0263262

Alignment:
SKCSVHMTCTDBSKCSV
ASCTRCCTCYBCSB---

Original motif Consensus sequence: VSGRSBHAGARDVSGRS

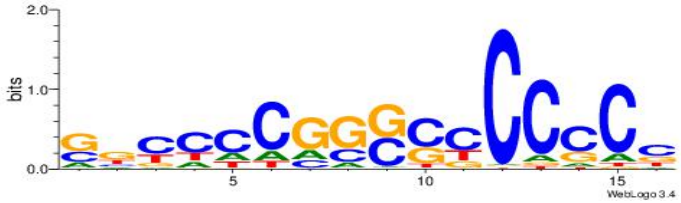


Reverse complement motif Consensus sequence: SKCSVHMTCTDBSKCSV

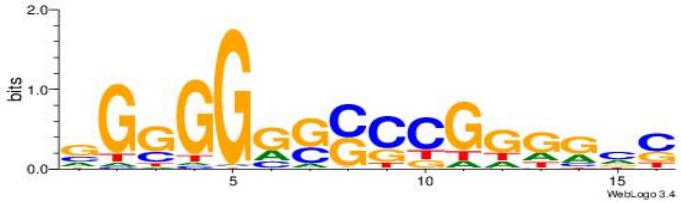


Dataset #: 1 Motif ID: 77 Motif name: C077

Original motif Consensus sequence: SBCCCCGGSSCCCCCB



Reverse complement motif Consensus sequence: BGGGGGSSCCGGGGBS



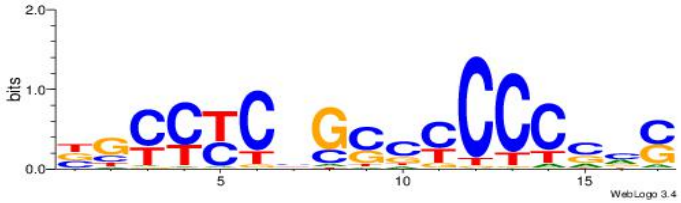
Best Matches for Motif ID 77 (Highest to Lowest)

Dataset #:	1
Motif ID:	22
Motif name:	C022
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif

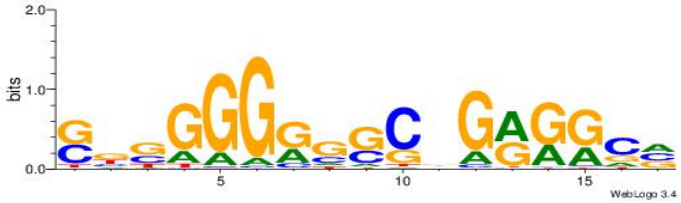
Direction:	Backward
Position number:	2
Number of overlap:	16
Similarity score:	0.0139379

Alignment:
BGCCYCBGSCYCCCSVS
SBCCCCGGSSCCCCCB-

Original motif Consensus sequence: BGCCYCBGSCYCCCSVS



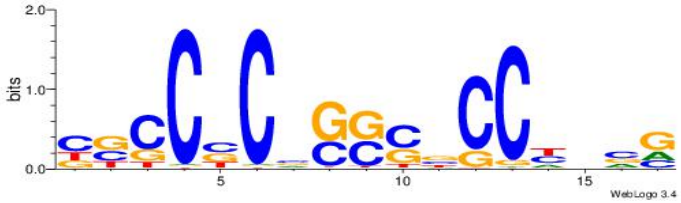
Reverse complement motif Consensus sequence: SVSGGGKGSCBGMGGCV



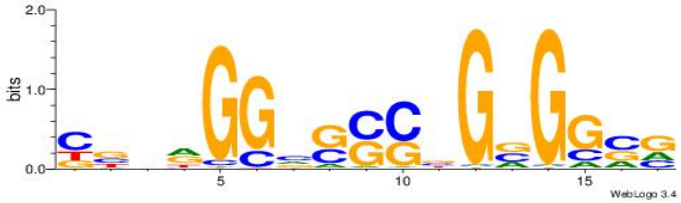
Dataset #:	1
Motif ID:	140
Motif name:	C140
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	16
Similarity score:	0.0278254

Alignment:
BSCCBCVSSSBCCYHVG
SBCCCCGGSSCCCCCB-

Original motif Consensus sequence: BSCCBCVSSSBCCYHVG



Reverse complement motif Consensus sequence: CVDMGGBSSSVGBGGSB

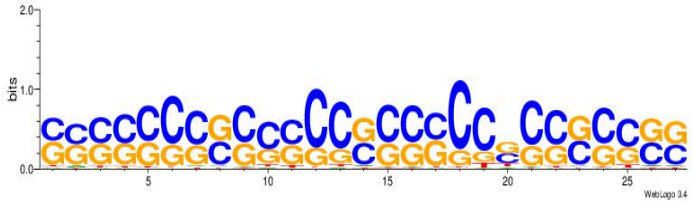


Dataset #:	1
Motif ID:	4
Motif name:	C004
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	12
Number of overlap:	16
Similarity score:	0.028174

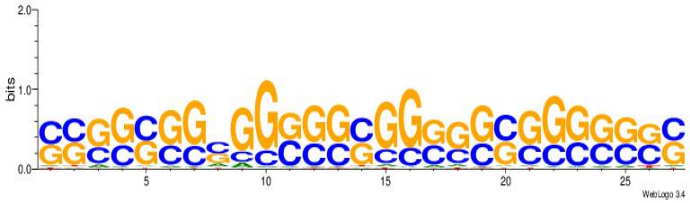
Alignment:

```
SSSSSSGSGGSSSSGGSSSSSGSSSSS
-----------BGGGGGSSCCGGGGBS
```

Original motif Consensus sequence: SSSSSCSSSSSCCSSSSCCSCSSSSSS



Reverse complement motif Consensus sequence: SSSSSSGSGGSSSSGGSSSSSGSSSSS

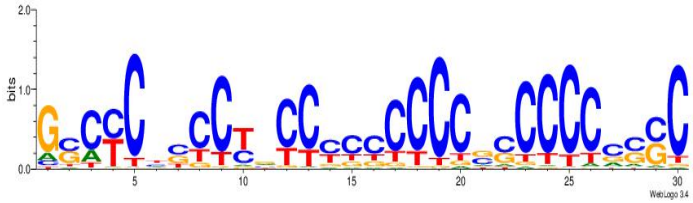


Dataset #:	1
Motif ID:	3
Motif name:	C003
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	14
Number of overlap:	16
Similarity score:	0.029123

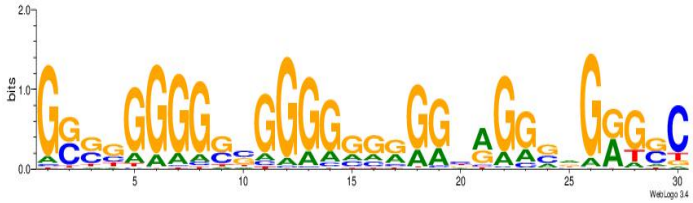
Alignment:

```
GSCYCHSCCYVCCYCCCCCCSSCCCCCSSC
-------------SBCCCCGGSSCCCCCB-
```

Original motif Consensus sequence:
GSCYCHSCCYVCCYCCCCCCSSCCCCCSSC



Reverse complement motif Consensus sequence:
GSSGGGGGSSGGGGGGKGGVMGGSHGKGSC

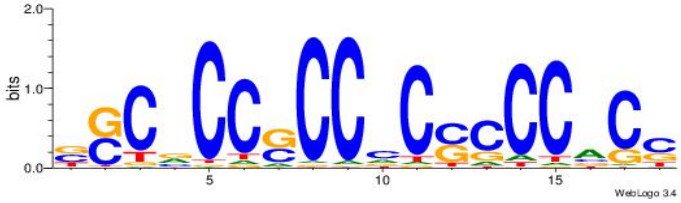


Dataset #:	1
Motif ID:	20
Motif name:	C020
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3

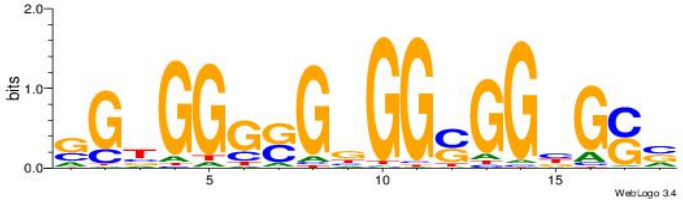
Number of overlap: 16
Similarity score: 0.0454489

Alignment:
BSCVCCSCCVCSCCCACS
--SBCCCCGGSSCCCCCB

Original motif Consensus sequence: BSCVCCSCCVCSCCCACS



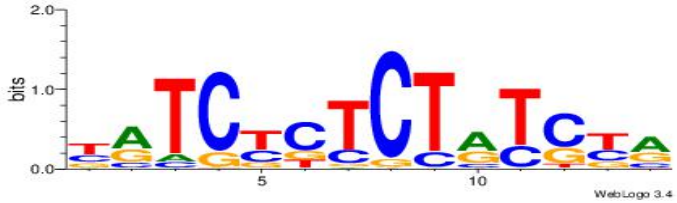
Reverse complement motif Consensus sequence: SGTGGGSGVGGSGGVGSB



Dataset #: 1 Motif ID: 78 Motif name: C078

Original motif Consensus sequence: YRGAYAGAGRGAYR

Reverse complement motif Consensus sequence: KMTCKCTCTMTCK



Best Matches for Motif ID 78 (Highest to Lowest)

Dataset #: 1
Motif ID: 25
Motif name: C025
Matching format of first motif: Original Motif

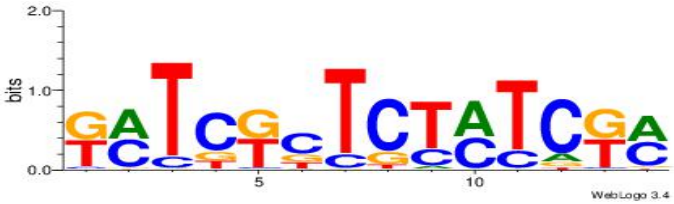
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0

Alignment:

```
KMGAKAGAGMGAKM
YRGAYAGAGRGAYR
```

Original motif Consensus sequence: KMGAKAGAGMGAKM

Reverse complement motif Consensus sequence: RRTCRCTCTRTCRR

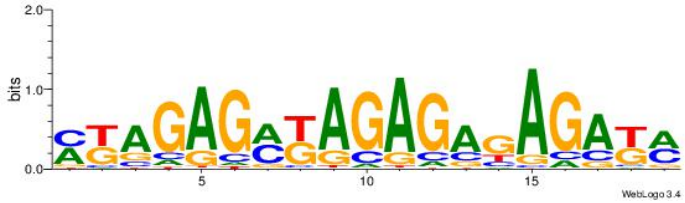


Dataset #:	1
Motif ID:	12
Motif name:	C012
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	14
Similarity score:	0.00828206

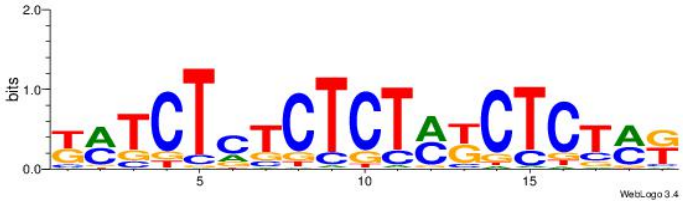
Alignment:

YRTCTCTCTCTRYCTCTRR
--KMTCKCTCTMTCKM---

Original motif Consensus sequence: MKAGAGMKAGAGAGAGAKM



Reverse complement motif Consensus sequence: YRTCTCTCTCTRYCTCTRR

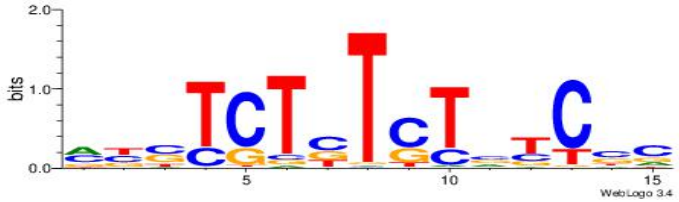


Dataset #:	1
Motif ID:	70
Motif name:	C070
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.00930595

Alignment:
GVGABAGAVAGASVK
YRGAYAGAGRGAYR-

Original motif Consensus sequence: GVGABAGAVAGASVK

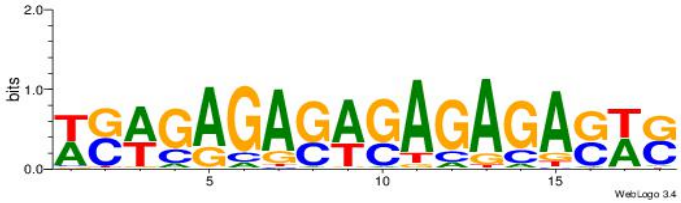
Reverse complement motif Consensus sequence: RBSTCTVTCTBTCV



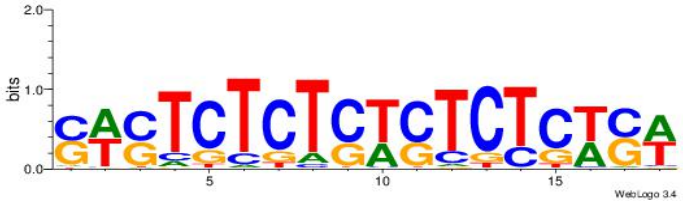
Dataset #: 1
Motif ID: 17
Motif name: C017
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 2
Number of overlap: 14
Similarity score: 0.0146835

Alignment:
SWSTCTCTSWSTCTCWSW
---KMTCKCTCTMTCKM-

Original motif Consensus sequence: WSWGAGASWSAGAGASWS



Reverse complement motif Consensus sequence: SWSTCTCTSWSTCTCWSW



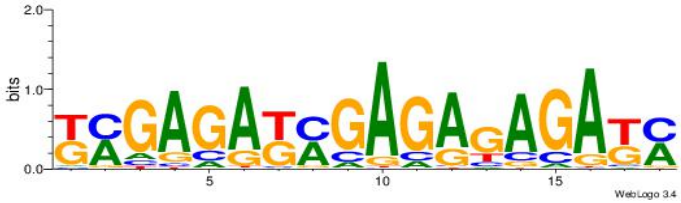
Dataset #: 1

Motif ID:	11
Motif name:	C011
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	14
Similarity score:	0.0193986

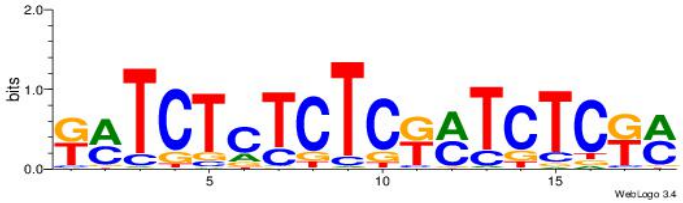
Alignment:

```
KMGAGAKMGAGAGAGAKM
----YRGAYAGAGRGAYR
```

Original motif Consensus sequence: KMGAGAKMGAGAGAGAKM

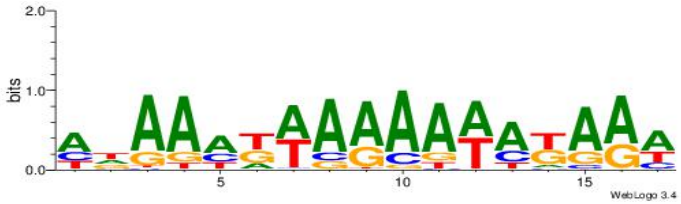


Reverse complement motif Consensus sequence: RRTCTCTCTCRRTCTCRR

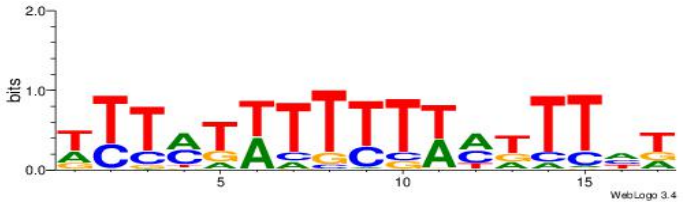


Dataset #: 1 Motif ID: 79 Motif name: C079

Original motif Consensus sequence: ADAAAKWAAAAWAKARW



Reverse complement motif Consensus sequence: WKTRTWTTTTWRTTTDT



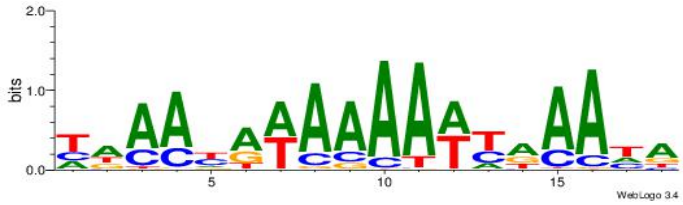
Best Matches for Motif ID 79 (Highest to Lowest)

Dataset #:	1
Motif ID:	24
Motif name:	C024
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.0194272

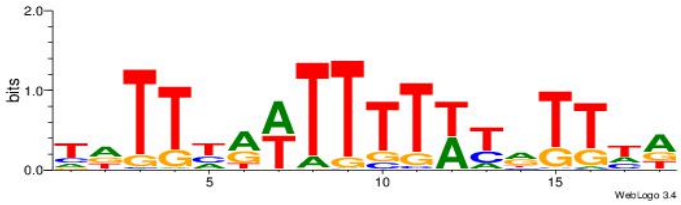
Alignment:

```
THTTDMWTTTTWKMTTDA
-WKTRTWTTTTWRTTTDT
```

Original motif Consensus sequence: TDAAYRWAAAAWYDAAHA



Reverse complement motif Consensus sequence: THTTDMWTTTTWKMTTDA

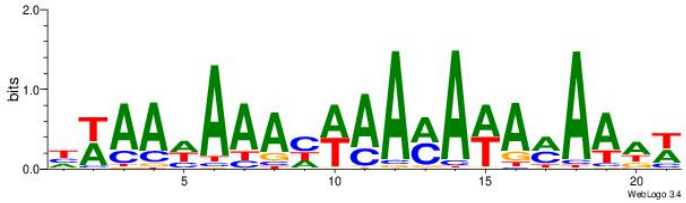


Dataset #:	1
Motif ID:	16
Motif name:	C016
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement

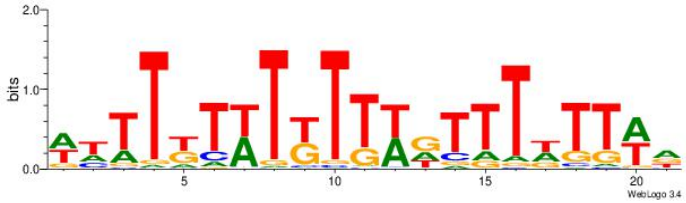
Direction:	Forward
Position number:	2
Number of overlap:	17
Similarity score:	0.020907

Alignment:
WWTTYTWTYTTWDTTTWTTWH
-WKTRTWTTTTWRTTTDT---

Original motif Consensus sequence: HWAAWAAAHWAAMAWAMAAWW



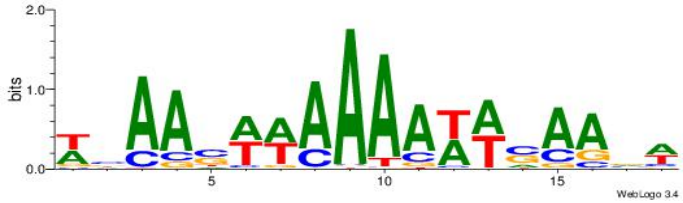
Reverse complement motif Consensus sequence: WWTTYTWTYTTWDTTTWTTWH



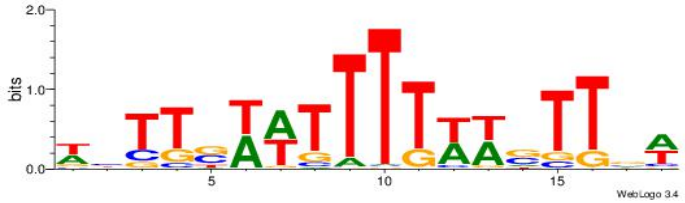
Dataset #:	1
Motif ID:	97
Motif name:	C097
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.0210687

Alignment:
WVTTSWWTTTTWWSTTBW
-WKTRTWTTTTWRTTTDT

Original motif Consensus sequence: WBAASWWAAAAWWSAAVW



Reverse complement motif Consensus sequence: WVTTSWWTTTTWWSTTBW

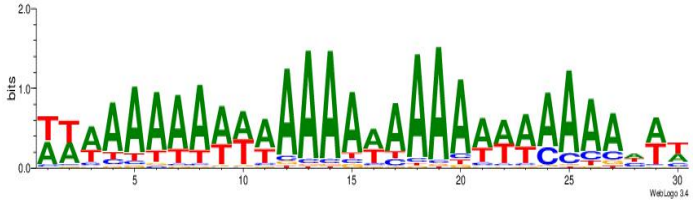


Dataset #:	1
Motif ID:	1
Motif name:	C001
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	10
Number of overlap:	17
Similarity score:	0.0222548

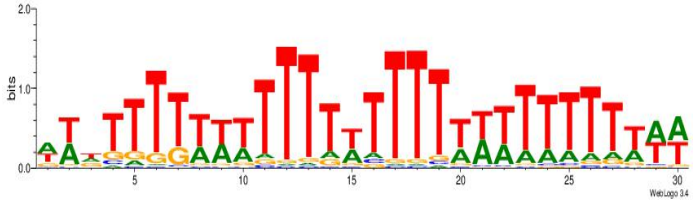
Alignment:

```
WWWAAAAAWWAAAAAWAAAAAWWAAAAHWW
----ADAAAKWAAAAWAKARW---------
```

Original motif Consensus sequence: WWWAAAAAWWAAAAAWAAAAAWWAAAAHWW



Reverse complement motif Consensus sequence: WWHTTTTWWTTTTTWTTTTTWWTTTTTWWW

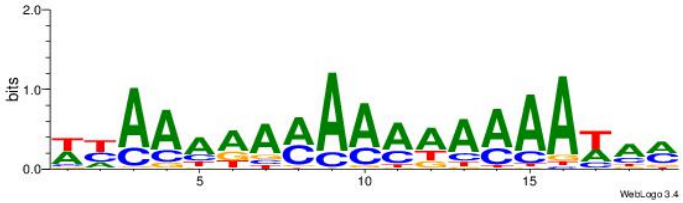


Dataset #:	1
Motif ID:	30
Motif name:	C030
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3
Number of overlap:	17
Similarity score:	0.0272295

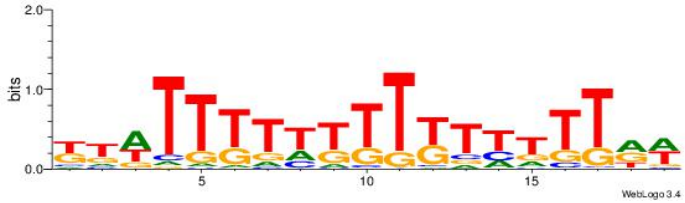
Alignment:

```
YTWTTTTTTTTYTTTTTMW
--WKTRTWTTTTWRTTTDT
```

Original motif Consensus sequence: WYAAAAAMAAAAAAAAWAM



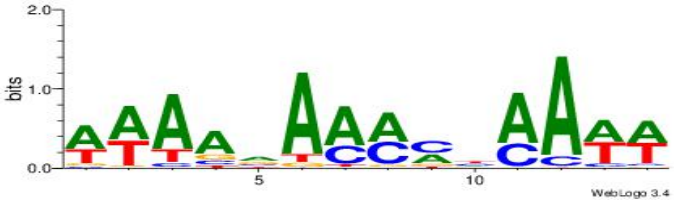
Reverse complement motif Consensus sequence: YTWTTTTTTTTYTTTTTMW

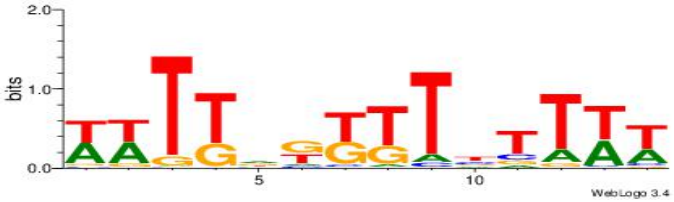


Dataset #: 1 Motif ID: 80 Motif name: C080

Original motif Consensus sequence: WWAAVAAMMHAAWW

Reverse complement motif Consensus sequence: WWTTHRYTTBTTW





Best Matches for Motif ID 80 (Highest to Lowest)

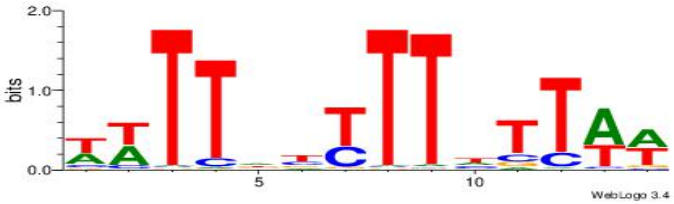
Dataset #:	1
Motif ID:	131
Motif name:	C131
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.00242398

Alignment:

```
WWAADAARVHAAWW
WWAAVAAMMHAAWW
```

Original motif Consensus sequence: WWAADAARVHAAWW

Reverse complement motif Consensus sequence: WWTTHBKTTDTTW



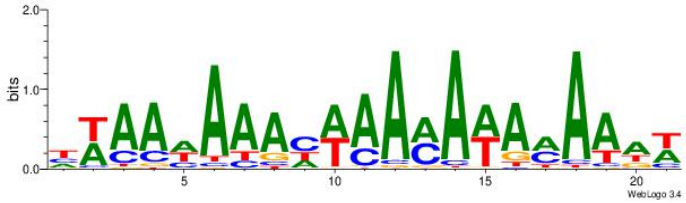
Dataset #: 1

Motif ID:	16
Motif name:	C016
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.0141088

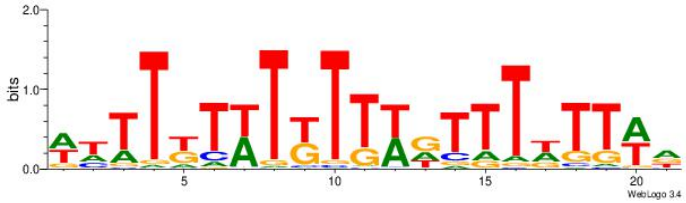
Alignment:

```
HWAAWAAAHWAAMAWAMAAWW
WWAAVAAMMHAAWW-------
```

Original motif Consensus sequence: HWAAWAAAHWAAMAWAMAAWW



Reverse complement motif Consensus sequence: WWTTYTWTYTTWDTTTWTTWH

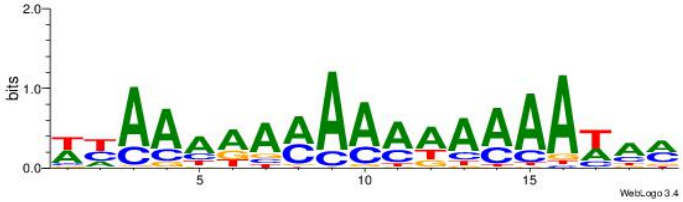


Dataset #:	1
Motif ID:	30
Motif name:	C030
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	14

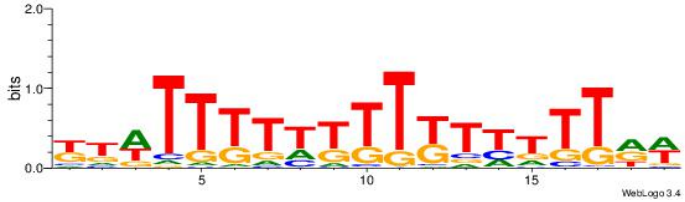
Similarity score: 0.0166572

Alignment:
WYAAAAAMAAAAAAAAWAM
---WWAAVAAMMHAAWW--

Original motif Consensus sequence: WYAAAAAMAAAAAAAAWAM



Reverse complement motif Consensus sequence: YTWTTTTTTTTYTTTTTMW

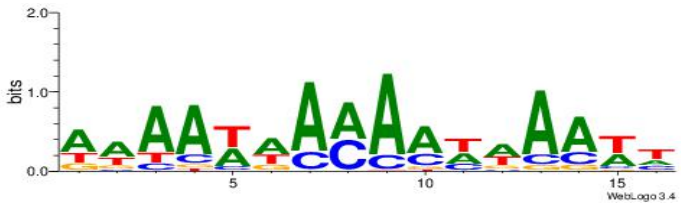


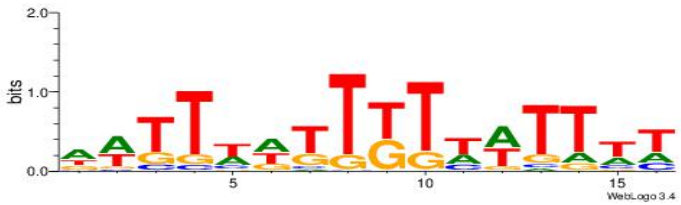
Dataset #: 1
Motif ID: 98
Motif name: C098
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 14
Similarity score: 0.0168591

Alignment:
AAAAWWAMAAWWAAWH
-WWAAVAAMMHAAWW-

Original motif Consensus sequence: AAAAWWAMAAWWAAWH

Reverse complement motif Consensus sequence: HWTTWWTTYTWWTTTT



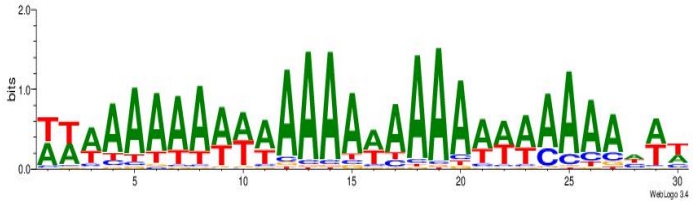


Dataset #:	1
Motif ID:	1
Motif name:	C001
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	9
Number of overlap:	14
Similarity score:	0.0174091

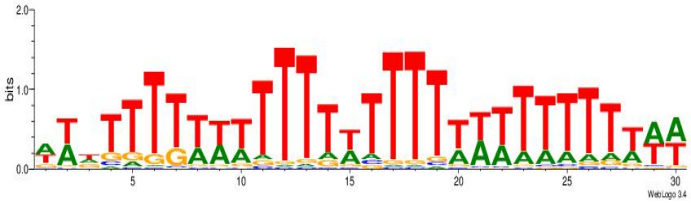
Alignment:

```
WWWAAAAAWWAAAAAWAAAAAWWAAAAHWW
--------WWAAVAAMMHAAWW--------
```

Original motif Consensus sequence:
WWWAAAAAWWAAAAAWAAAAAWWAAAAHWW

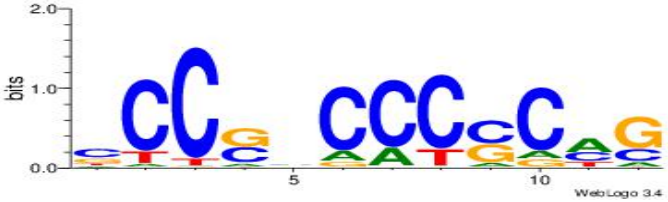


Reverse complement motif Consensus sequence:
WWHTTTTWWTTTTTWTTTTTWWTTTTTWWW



Dataset #: 1 Motif ID: 81 Motif name: C081

Original motif Consensus sequence: BCCSHCCCSCMG



Reverse complement motif Consensus sequence: CYGSGGGHSGGB

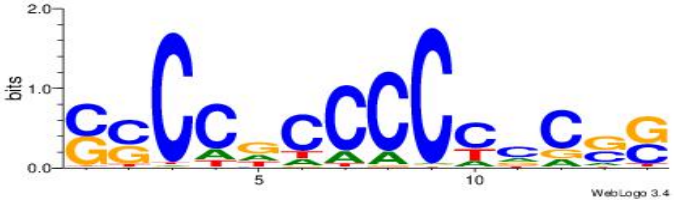
Best Matches for Motif ID 81 (Highest to Lowest)

Dataset #:	1
Motif ID:	54
Motif name:	C054
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	12
Similarity score:	0.0207001

Alignment:

```
SSCCDCCCCCCCSS
-BCCSHCCCSCMG-
```

Original motif Consensus sequence: SSCCDCCCCCCCSS



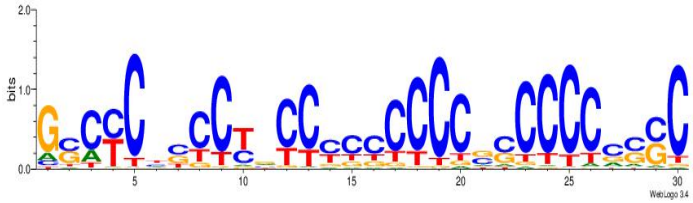
Reverse complement motif Consensus sequence: SSGGGGGGHGG

Dataset #:	1
Motif ID:	3
Motif name:	C003
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	18
Number of overlap:	12
Similarity score:	0.0209376

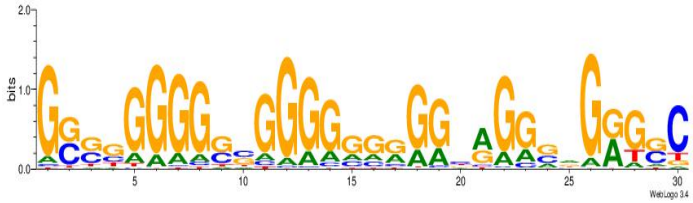
Alignment:

```
GSCYCHSCCYVCCYCCCCCCSSCCCCCSSC
-----------------BCCSHCCCSCMG-
```

Original motif Consensus sequence:
GSCYCHSCCYVCCYCCCCCCSSCCCCCSSC



Reverse complement motif Consensus sequence:
GSSGGGGGSSGGGGGGKGGVMGGSHGKGSC

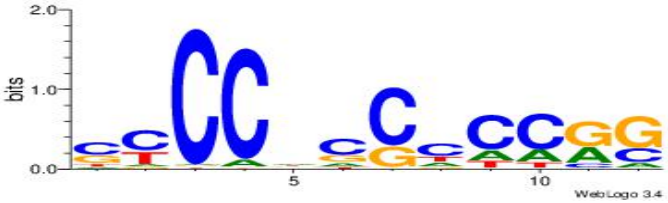


Dataset #:	1
Motif ID:	59
Motif name:	C059
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

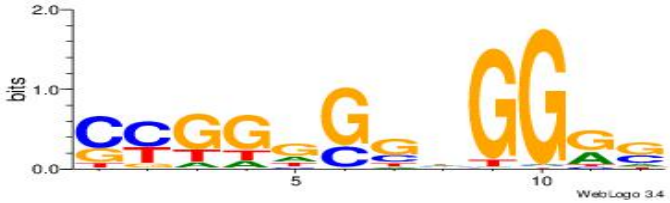
Number of overlap: 12
Similarity score: 0.0209747

Alignment:
CMGGGGGDGGKS
CYGSGGGHSGGB

Original motif Consensus sequence: SYCCDCCCCCRG



Reverse complement motif Consensus sequence: CMGGGGGDGGKS

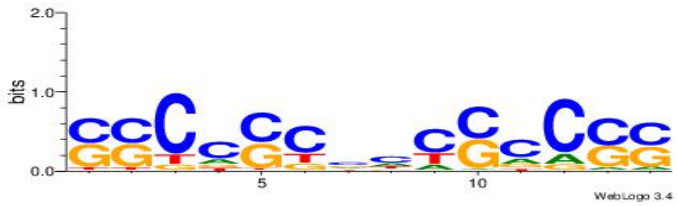


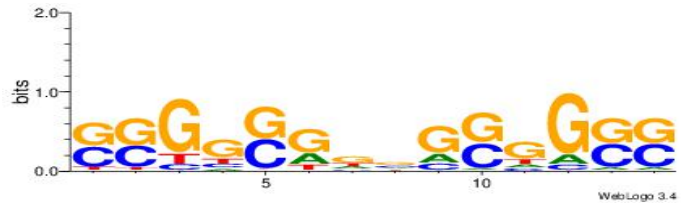
Dataset #: 1
Motif ID: 23
Motif name: C023
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 2
Number of overlap: 12
Similarity score: 0.0227663

Alignment:
SSCCSCBHCSCCSS
-BCCSHCCCSCMG-

Original motif Consensus sequence: SSCCSCBHCSCCSS

Reverse complement motif Consensus sequence: SSGGSGDBGSGGS



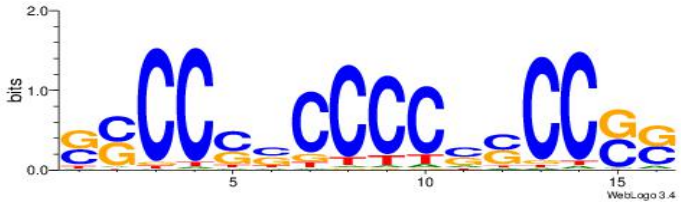


Dataset #:	1
Motif ID:	8
Motif name:	C008
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	12
Similarity score:	0.0275372

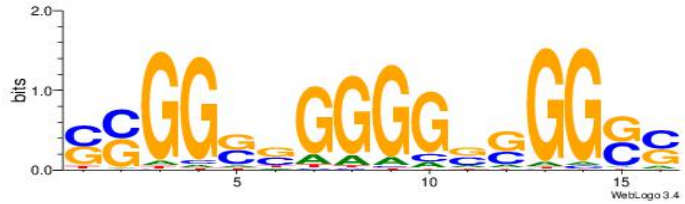
Alignment:

```
SSGGSSGGGGSSGGSS
---CYGSGGGHSGGB-
```

Original motif Consensus sequence: SSCCSSCCCCSSCCSS



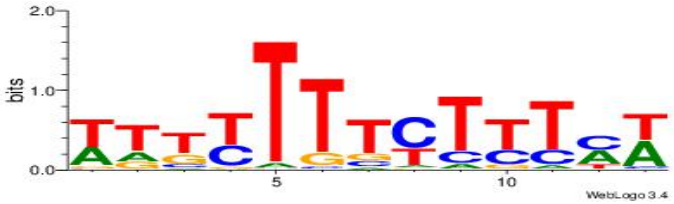
Reverse complement motif Consensus sequence: SSGGSSGGGGSSGGSS



Dataset #: 1 Motif ID: 82 Motif name: C082

Original motif Consensus sequence: WKAAARAAARAAW

Reverse complement motif Consensus sequence: WTTKTTTMTTTYW



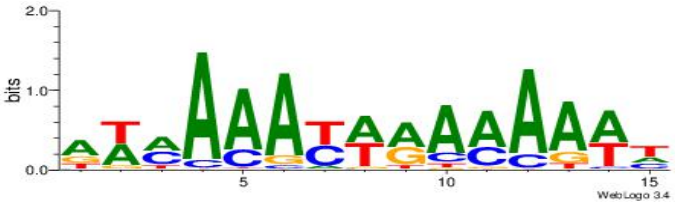
Best Matches for Motif ID 82 (Highest to Lowest)

Dataset #:	1
Motif ID:	56
Motif name:	C056
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.0174406

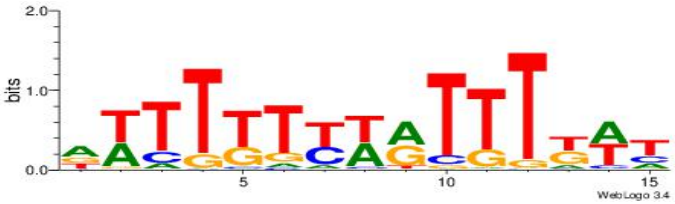
Alignment:

```
HWTTYTKWMTTTYWT
-WTTKTTTMTTTYW-
```

Original motif Consensus sequence: AWMAAAYWRAMAAWH



Reverse complement motif Consensus sequence: HWTTYTKWMTTTYWT

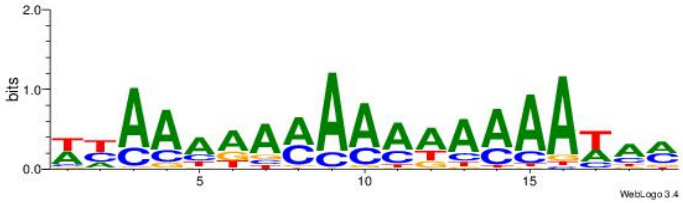


Dataset #:	1
Motif ID:	30
Motif name:	C030
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	13
Similarity score:	0.018911

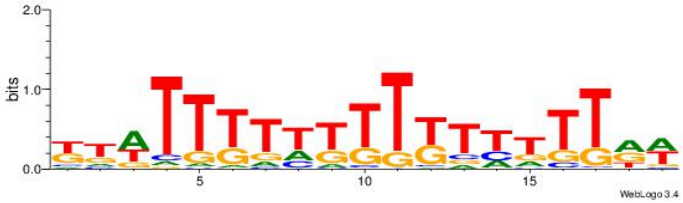
Alignment:

```
WYAAAAAMAAAAAAAAWAM
WKAAARAAARAAW------
```

Original motif Consensus sequence: WYAAAAAMAAAAAAAAWAM



Reverse complement motif Consensus sequence: YTWTTTTTTTTYTTTTTMW

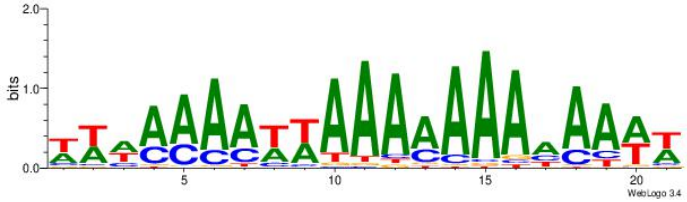


Dataset #:	1
Motif ID:	10
Motif name:	C010
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8

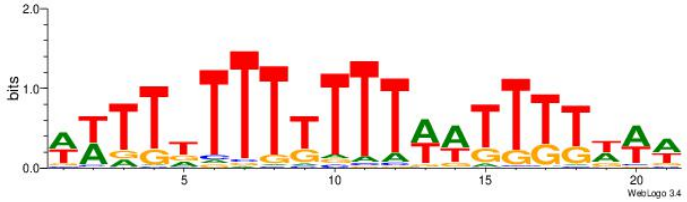
Number of overlap: 13
Similarity score: 0.0193236

Alignment:
WWWAAAAWWAAAAAAAAAAWW
-------WKAAARAAARAAW-

Original motif Consensus sequence: WWWAAAAWWAAAAAAAAAAWW



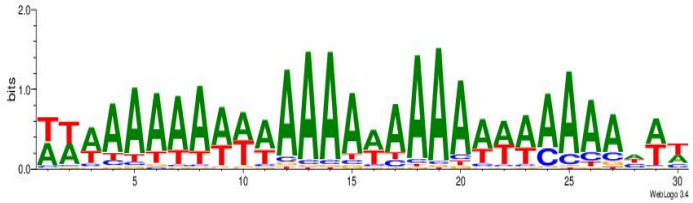
Reverse complement motif Consensus sequence: WWTTTTTTTTTTWWTTTTWWW



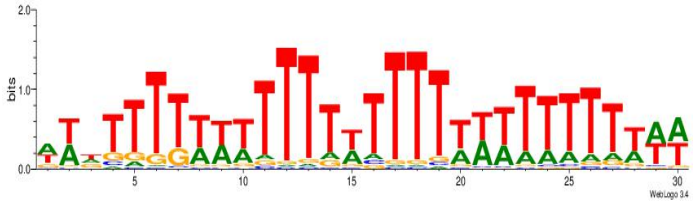
Dataset #: 1
Motif ID: 1
Motif name: C001
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 8
Number of overlap: 13
Similarity score: 0.0203244

Alignment:
WWHTTTTWWTTTTTWTTTTTWWTTTTTWWW
-------WTTKTTTMTTTYW----------

Original motif Consensus sequence:
WWWAAAAAWWAAAAAWAAAAAWWAAAAHWW



Reverse complement motif Consensus sequence:
WWHTTTTWWTTTTTWTTTTTWWTTTTTWWW

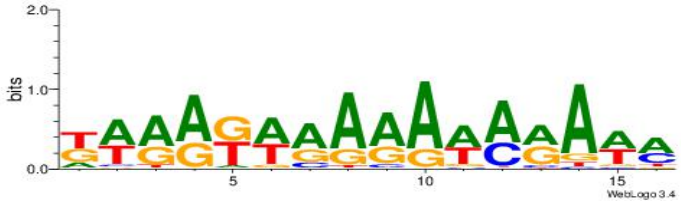


Dataset #:	1
Motif ID:	152
Motif name:	C152
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	13
Similarity score:	0.0224829

Alignment:

```
KWRRKWRARAWMRAWM
---WKAAARAAARAAW
```

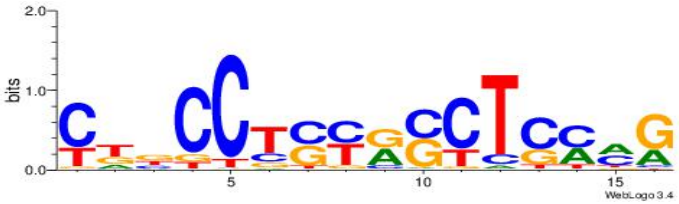
Original motif Consensus sequence: KWRRKWRARAWMRAWM



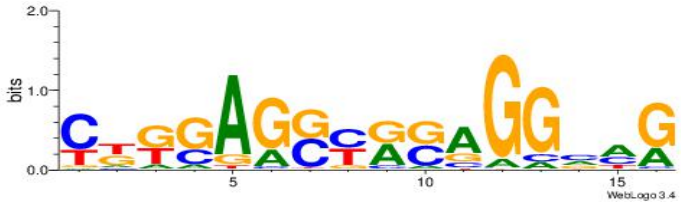
Reverse complement motif Consensus sequence:
YWTKYWTKTKWYKKWR

Dataset #: 1 **Motif ID: 83** **Motif name: C083**

Original motif Consensus sequence: CKBCCTSYRSCTCMMG



Reverse complement motif Consensus sequence: CYRGAGSMKSAGGBRG



Best Matches for Motif ID 83 (Highest to Lowest)

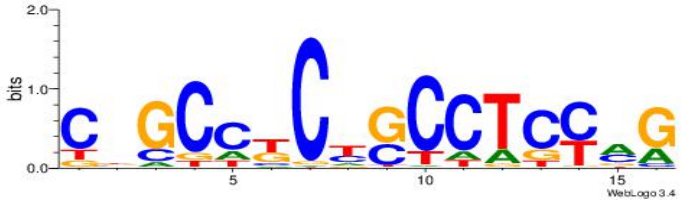
Dataset #:	1
Motif ID:	50
Motif name:	C050
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	16
Similarity score:	0.0114345

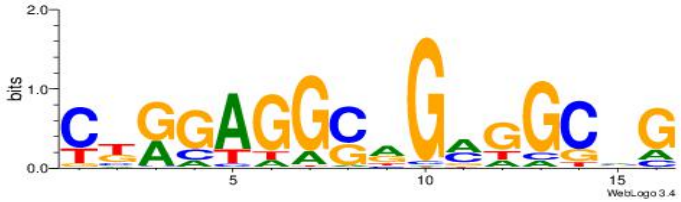
Alignment:

```
CBGCCKCYSCCTCYMG
CKBCCTSYRSCTCMMG
```

Original motif Consensus sequence: CBGCCKCYSCCTCYMG

Reverse complement motif Consensus sequence: CYKGAGGSMGRGGCVG

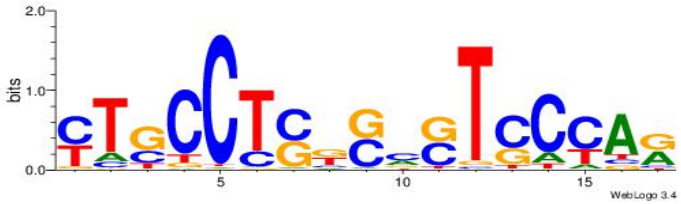




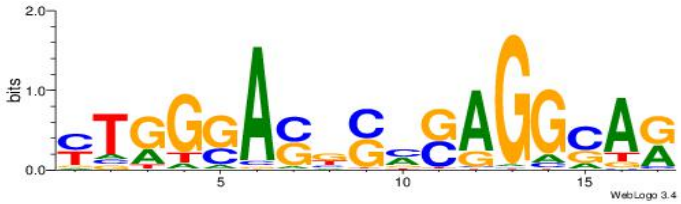
Dataset #: 1
Motif ID: 101
Motif name: C101
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 16
Similarity score: 0.01597

Alignment:
YTSCCTSKSVSTCCCAR
CKBCCTSYRSCTCMMG-

Original motif Consensus sequence: YTSCCTSKSVSTCCCAR



Reverse complement motif Consensus sequence: MTGGGASVSYSAGGSAK



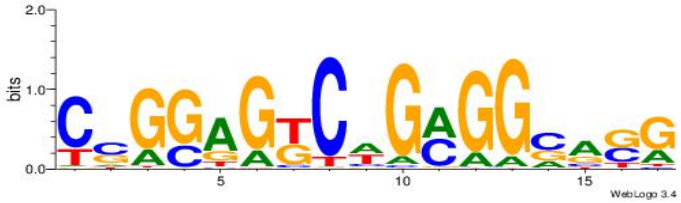
Dataset #: 1

Motif ID:	86
Motif name:	C086
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	16
Similarity score:	0.0280972

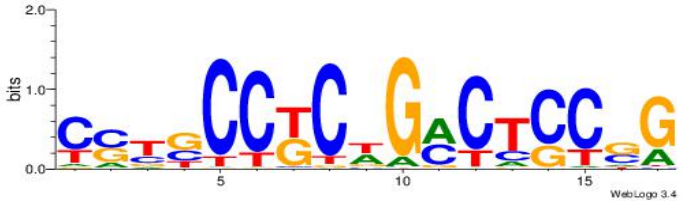
Alignment:

```
CSTSCCYCWGRCTCCSG
-CKBCCTSYRSCTCMMG
```

Original motif Consensus sequence: CSGGAGKCWGMGGSASG



Reverse complement motif Consensus sequence: CSTSCCYCWGRCTCCSG

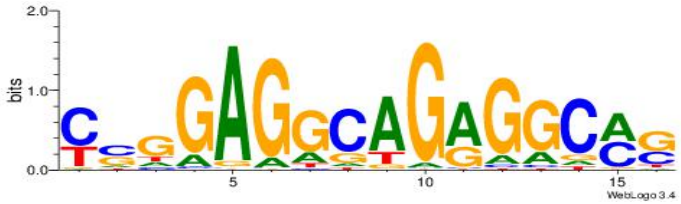


Dataset #:	1
Motif ID:	14
Motif name:	C014
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	16

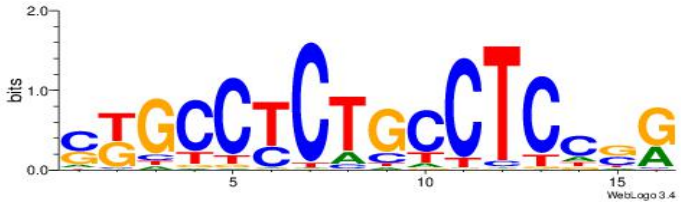
Similarity score: 0.0331373

Alignment:
YSGGAGGCAGAGGCMS
CYRGAGSMKSAGGBRG

Original motif Consensus sequence: YSGGAGGCAGAGGCMS



Reverse complement motif Consensus sequence: SYGCCTCTGCCTCCSK

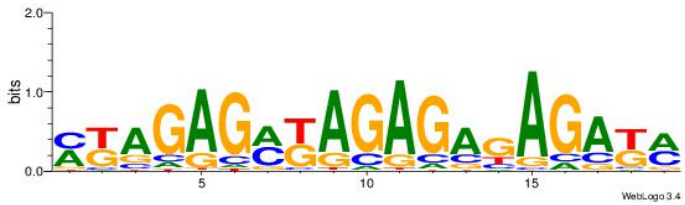


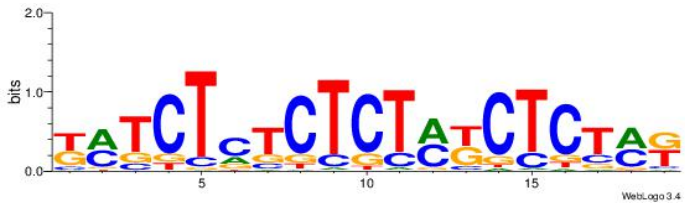
Dataset #: 1
Motif ID: 12
Motif name: C012
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 16
Similarity score: 0.0363902

Alignment:
MKAGAGMKAGAGAGAGAKM
---CYRGAGSMKSAGGBRG

Original motif Consensus sequence: MKAGAGMKAGAGAGAGAKM

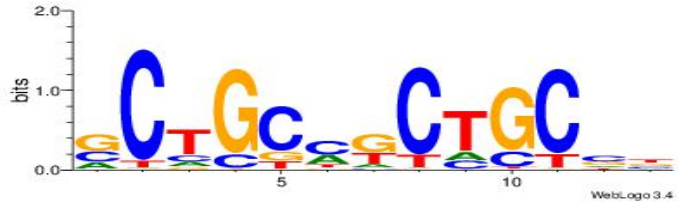
Reverse complement motif Consensus sequence: YRTCTCTCTCTRYCTCTRR





Dataset #: 1 Motif ID: 84 Motif name: C084

Original motif Consensus sequence: SCTGCMKCTGCVB



Reverse complement motif Consensus sequence: VVGCAGYRGCAGS

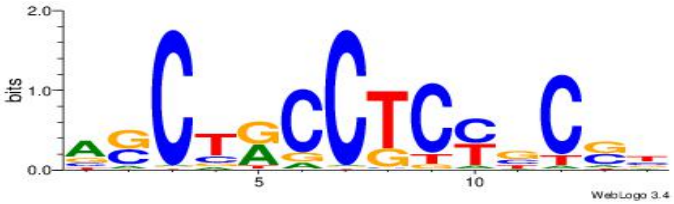
Best Matches for Motif ID 84 (Highest to Lowest)

Dataset #:	1
Motif ID:	76
Motif name:	C076
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.00787805

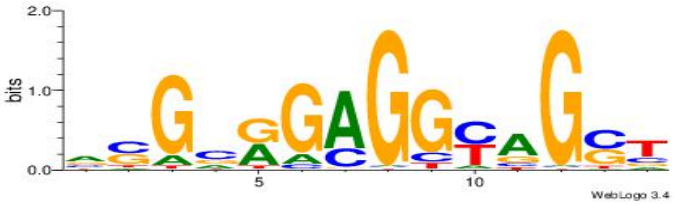
Alignment:

```
ASCTRCCTCYBCSB
-SCTGCMKCTGCVB
```

Original motif Consensus sequence: ASCTRCCTCYBCSB



Reverse complement motif Consensus sequence: VSGBKGAGGMAGS

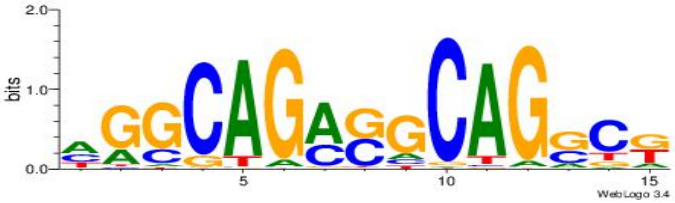


Dataset #:	1
Motif ID:	75
Motif name:	C075
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.0120992

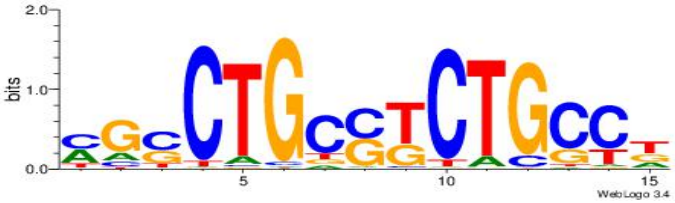
Alignment:

```
YGSCTGCSYCTGCCY
SCTGCMKCTGCVB--
```

Original motif Consensus sequence: MGGCAGMSGCAGSCK



Reverse complement motif Consensus sequence: YGSCTGCSYCTGC

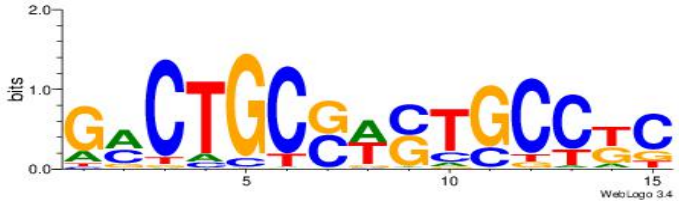


Dataset #:	1
Motif ID:	118
Motif name:	C118
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.0130639

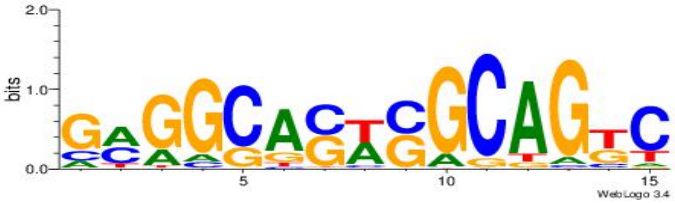
Alignment:

```
GMCTGCSWSTGCCKC
-SCTGCMKCTGCVB-
```

Original motif Consensus sequence: GMCTGCSWSTGCCKC



Reverse complement motif Consensus sequence: GRGGCASWSGCAGYC



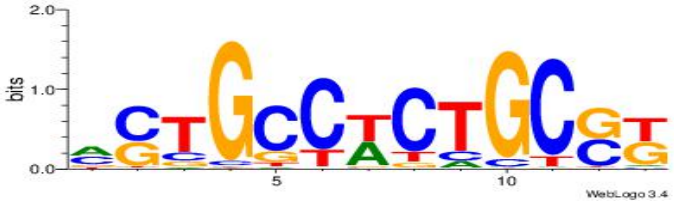
Dataset #:	1
Motif ID:	106
Motif name:	C106
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1

Number of overlap: 13
Similarity score: 0.0148962

Alignment:
RSTGCCWCTGCSY
SCTGCMKCTGCVB

Original motif Consensus sequence: MSGCAGWGGCASK

Reverse complement motif Consensus sequence: RSTGCCWCTGCSY

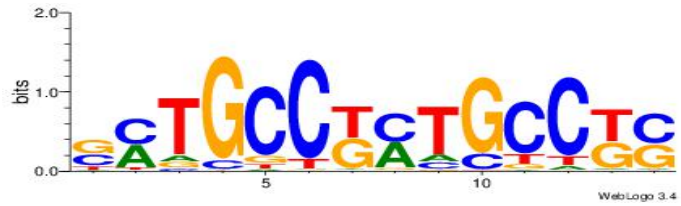


Dataset #: 1
Motif ID: 60
Motif name: C060
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 13
Similarity score: 0.0166117

Alignment:
SYTGCCYYTGCCYS
-SCTGCMKCTGCVB

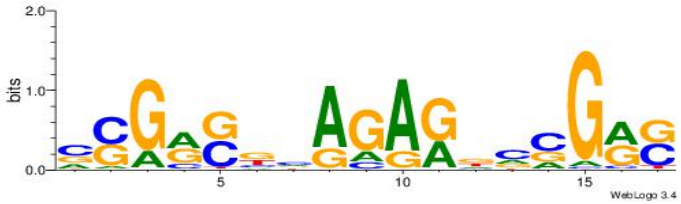
Original motif Consensus sequence: SMGGCAKMGGCAKS

Reverse complement motif Consensus sequence: SYTGCCYYTGCCYS

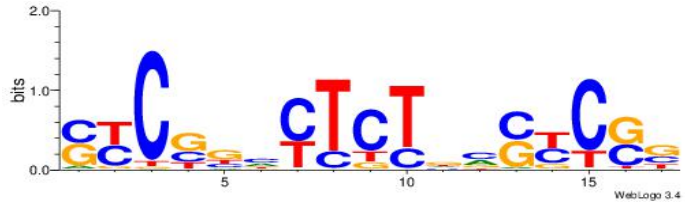


Dataset #: 1 Motif ID: 85 Motif name: C085

Original motif Consensus sequence: VSGRSBHAGARDVSGRS



Reverse complement motif Consensus sequence: SKCSVHMTCTDBSKCSV



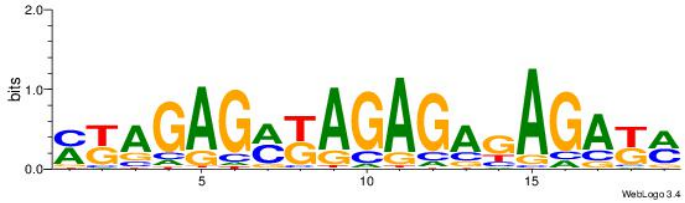
Best Matches for Motif ID 85 (Highest to Lowest)

Dataset #:	1
Motif ID:	12
Motif name:	C012
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	17
Similarity score:	0.0286515

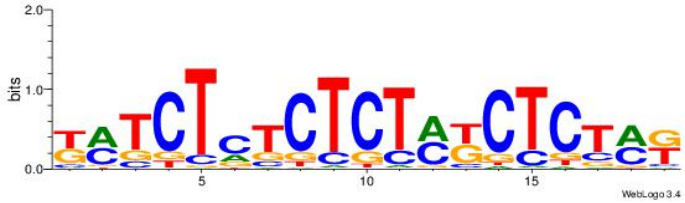
Alignment:

YRTCTCTCTCTRYCTCTRR
-SKCSVHMTCTDBSKCSV-

Original motif Consensus sequence: MKAGAGMKAGAGAGAGAKM



Reverse complement motif Consensus sequence: YRTCTCTCTCTRYCTCTRR

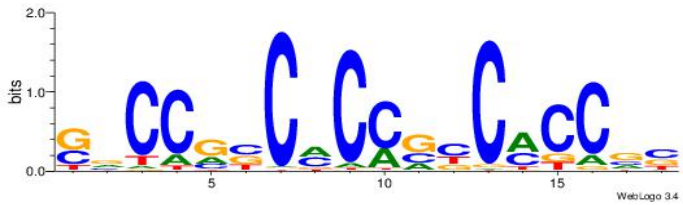


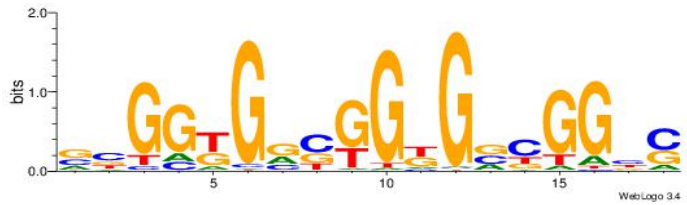
Dataset #:	1
Motif ID:	37
Motif name:	C037
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.033047

Alignment:
SVCCGBCMCCSYCMCCVB
-SKCSVHMTCTDBSKCSV

Original motif Consensus sequence: SVCCGBCMCCSYCMCCVB

Reverse complement motif Consensus sequence: BVGGYGKSGGYGBCGGVS



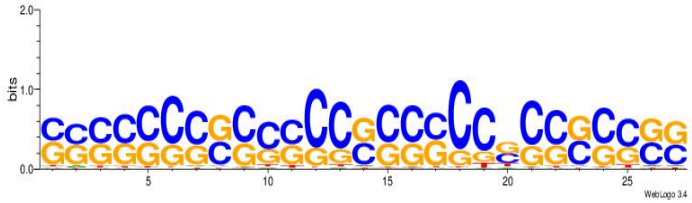


Dataset #:	1
Motif ID:	4
Motif name:	C004
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.0361207

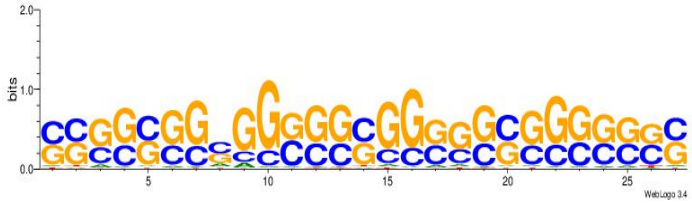
Alignment:

```
SSSSSCSSSSSCCSSSSCCSCSSSSSS
SKCSVHMTCTDBSKCSV----------
```

Original motif Consensus sequence:
SSSSSCSSSSSCCSSSSCCSCSSSSSS



Reverse complement motif Consensus sequence:
SSSSSSGSGGSSSSGGSSSSSGSSSSS



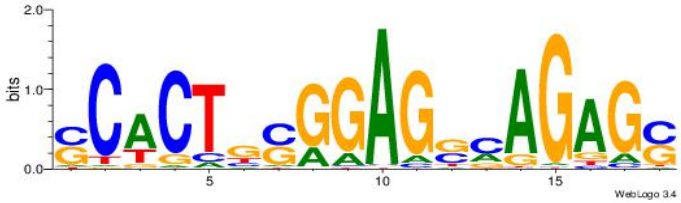
Dataset #:	1

Motif ID:	34
Motif name:	C034
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	17
Similarity score:	0.0436458

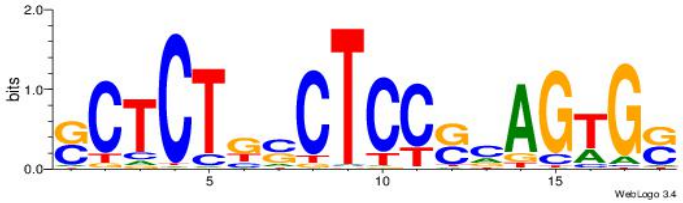
Alignment:

```
SCACTGSGGAGSMAGAGS
VSGRSBHAGARDVSGRS-
```

Original motif Consensus sequence: SCACTGSGGAGSMAGAGS



Reverse complement motif Consensus sequence: SCTCTRSCTCCSCAGTGS

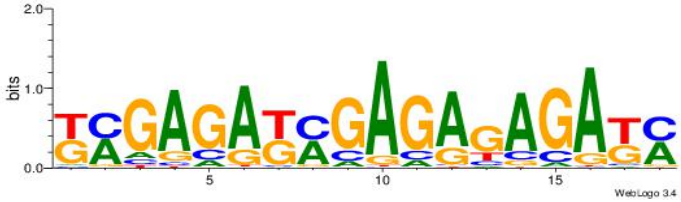


Dataset #:	1
Motif ID:	11
Motif name:	C011
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	17

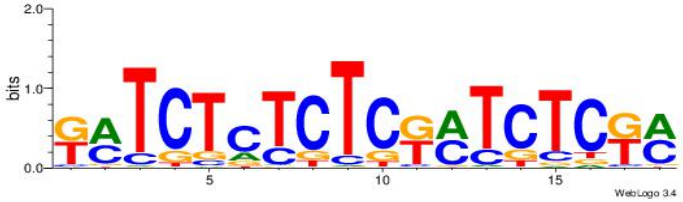
Similarity score: 0.0443201

Alignment:
RRTCTCTCTCRRTCTCRR
-SKCSVHMTCTDBSKCSV

Original motif Consensus sequence: KMGAGAKMGAGAGAGAKM

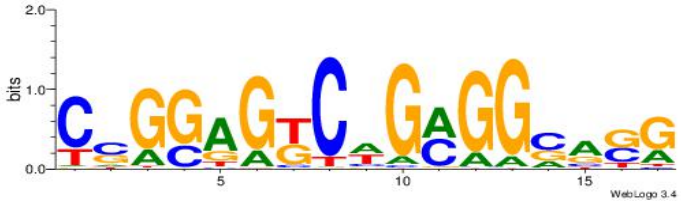


Reverse complement motif Consensus sequence: RRTCTCTCTCRRTCTCRR

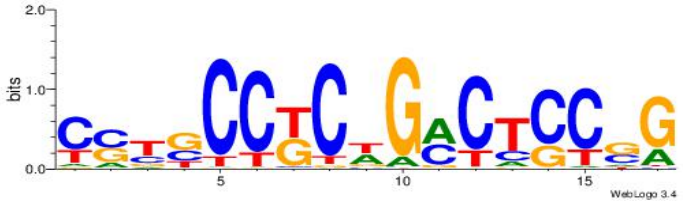


Dataset #: 1 Motif ID: 86 Motif name: C086

Original motif Consensus sequence: CSGGAGKCWGMGGSASG



Reverse complement motif Consensus sequence: CSTSCCYCWGRCTCCSG



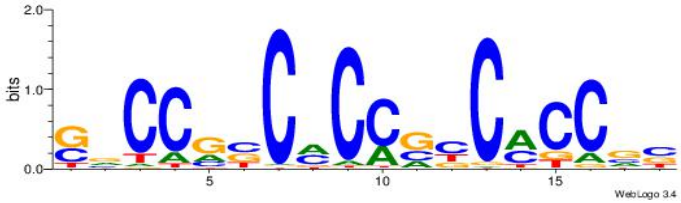
Best Matches for Motif ID 86 (Highest to Lowest)

Dataset #:	1
Motif ID:	37
Motif name:	C037
Matching format of first motif:	Reverse Complement

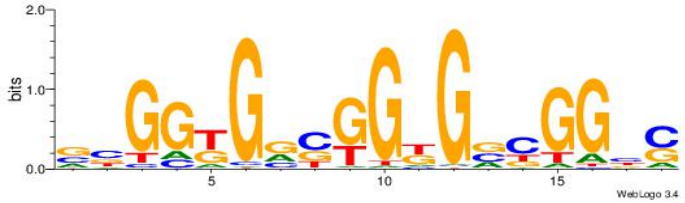
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.0392191

Alignment:
SVCCGBCMCCSYCMCCVB
CSTSCCYCWGRCTCCSG-

Original motif Consensus sequence: SVCCGBCMCCSYCMCCVB



Reverse complement motif Consensus sequence: BVGGYGKSGGYGBCGGVS

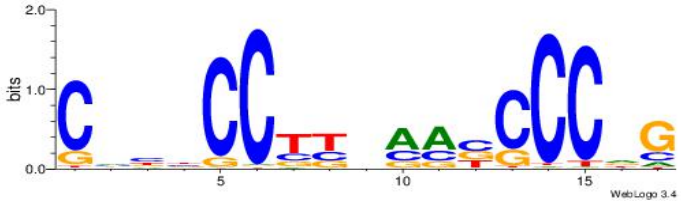


Dataset #:	1
Motif ID:	107
Motif name:	C107
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.0441792

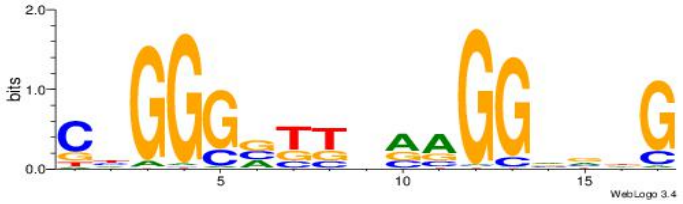
Alignment:

CDGGGBTTVMAGGVBHG
CSGGAGKCWGMGGSASG

Original motif Consensus sequence: CHBBCCTYBAABCCCDG



Reverse complement motif Consensus sequence: CDGGGBTTVMAGGVBHG

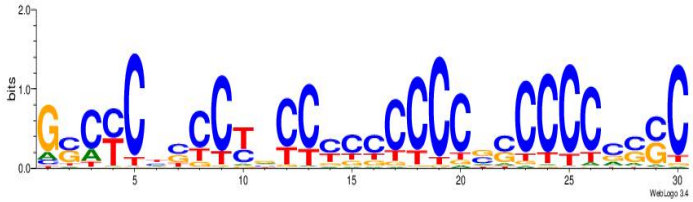


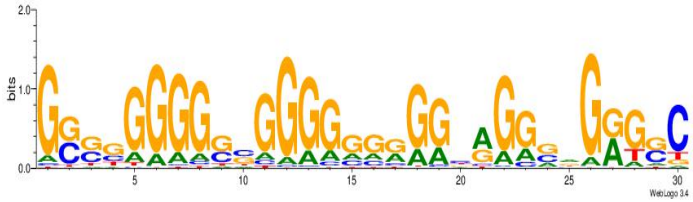
Dataset #:	1
Motif ID:	3
Motif name:	C003
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.047958

Alignment:
GSSGGGGGSSGGGGGGKGGVMGGSHGKGSC
----------CSGGAGKCWGMGGSASG--

Original motif Consensus sequence: GSCYCHSCCYVCCYCCCCCCSSCCCCCSSC

Reverse complement motif Consensus sequence: GSSGGGGGSSGGGGGGKGGVMGGSHGKGSC

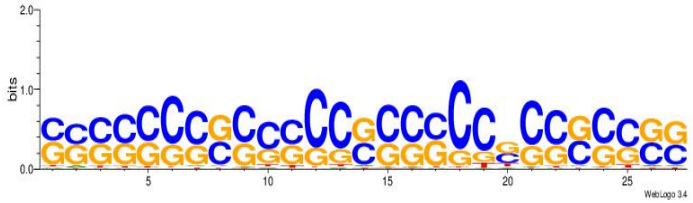




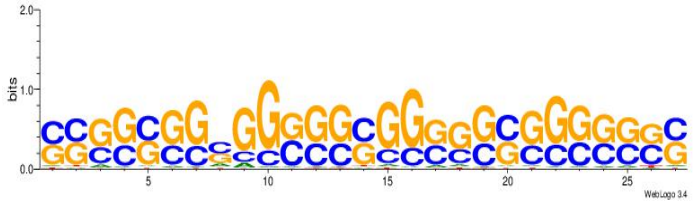
Dataset #: 1
Motif ID: 4
Motif name: C004
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 4
Number of overlap: 17
Similarity score: 0.0482352

Alignment:
SSSSSCSSSSSCCSSSSCCSCSSSSSS
---CSTSCCYCWGRCTCCSG-------

Original motif Consensus sequence:
SSSSSCSSSSSCCSSSSCCSCSSSSSS



Reverse complement motif Consensus sequence:
SSSSSSGSGGSSSSGGSSSSSGSSSSS



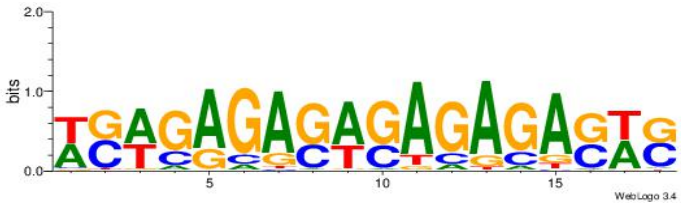
Dataset #: 1

Motif ID:	17
Motif name:	C017
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	17
Similarity score:	0.0513474

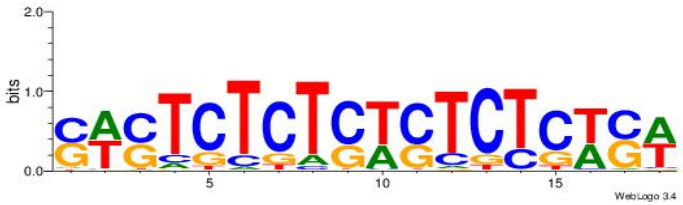
Alignment:

```
WSWGAGASWSAGAGASWS
CSGGAGKCWGMGGSASG-
```

Original motif Consensus sequence: WSWGAGASWSAGAGASWS

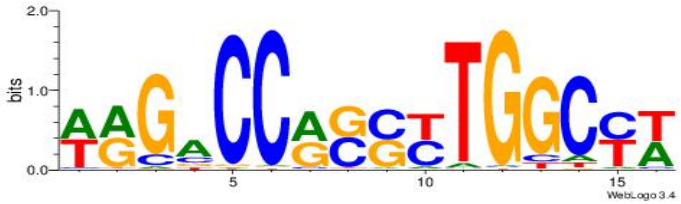


Reverse complement motif Consensus sequence: SWSTCTCTSWSTCTCWSW

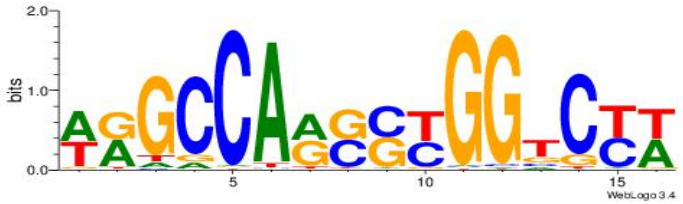


Dataset #: 1 Motif ID: 87 Motif name: C087

Original motif Consensus sequence: WRGACCRSSYTGGCYW



Reverse complement motif Consensus sequence: WKGCCAMSSKGGTCKW



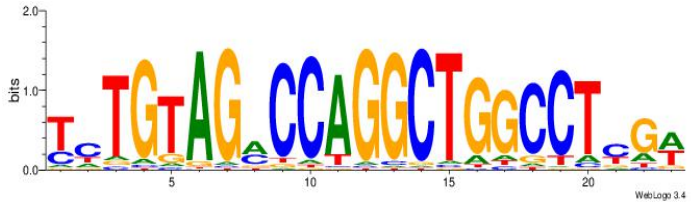
Best Matches for Motif ID 87 (Highest to Lowest)

Dataset #:	1
Motif ID:	5
Motif name:	C005
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	16
Similarity score:	0.0082892

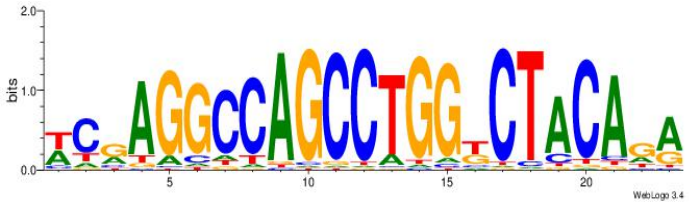
Alignment:

```
TCTGTAGMCCAGGCTGGCCTYGW
----WRGACCRSSYTGGCYW---
```

Original motif Consensus sequence: TCTGTAGMCCAGGCTGGCCTYGW



Reverse complement motif Consensus sequence: WCKAGGCCAGCCTGGYCTACAGA

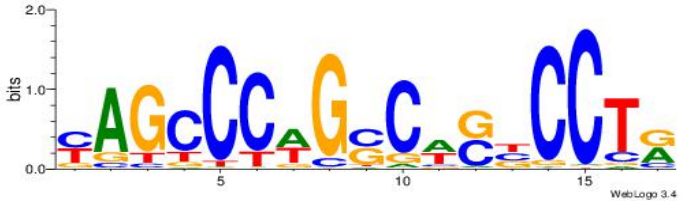


Dataset #:	1
Motif ID:	122
Motif name:	C122
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif

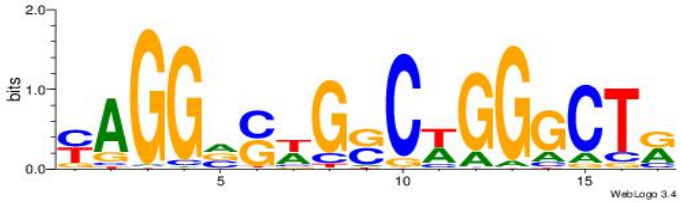
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.0323948

Alignment:
YAGCCCWGSCWSBCCTR
WRGACCRSSYTGGCYW-

Original motif Consensus sequence: YAGCCCWGSCWSBCCTR



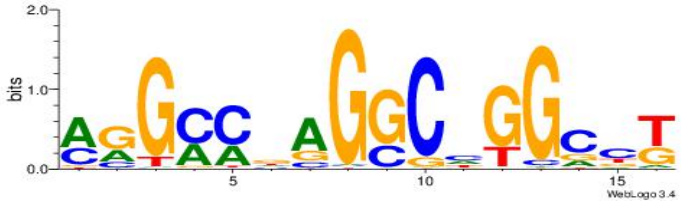
Reverse complement motif Consensus sequence: MAGGVSWGSCWGGGCTK



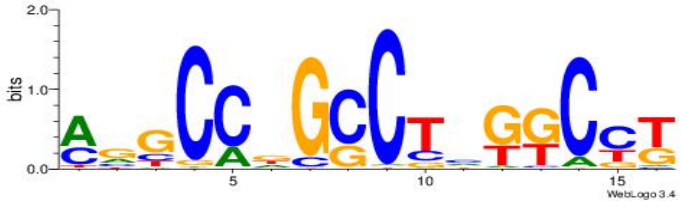
Dataset #:	1
Motif ID:	61
Motif name:	C061
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.0331199

Alignment:
MRGMMBAGGCHGGCCK
WRGACCRSSYTGGCYW

Original motif Consensus sequence: MRGMMBAGGCHGGCCK



Reverse complement motif Consensus sequence: RGGCCDGCCTBRRCMY

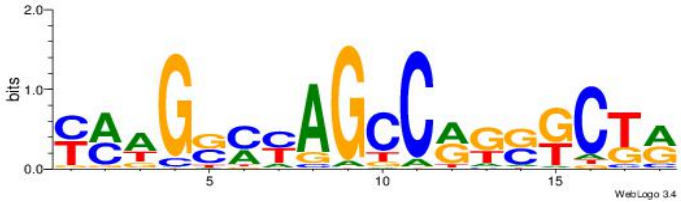


Dataset #:	1
Motif ID:	73
Motif name:	C073
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	16
Similarity score:	0.0403976

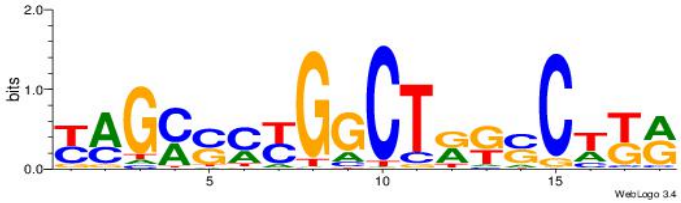
Alignment:

```
YMWGSMYAGCCRKSKCTR
WKGCCAMSSKGGTCKW--
```

Original motif Consensus sequence: YMWGSMYAGCCRKSKCTR



Reverse complement motif Consensus sequence: KAGYSYKGGCTKRSCWYK

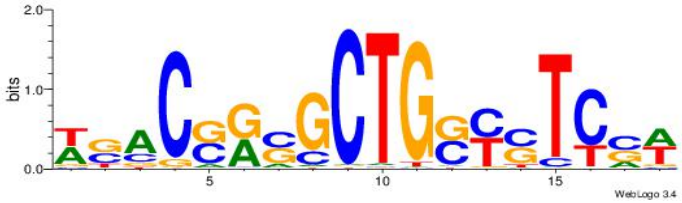


Dataset #:	1
Motif ID:	124
Motif name:	C124
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.0419895

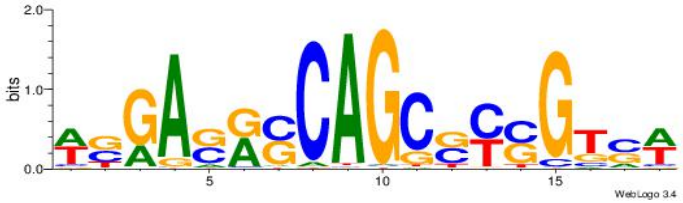
Alignment:

```
WSACSRSGCTGSYSTCSW
WKGCCAMSSKGGTCKW--
```

Original motif Consensus sequence: WSACSRSGCTGSYSTCSW



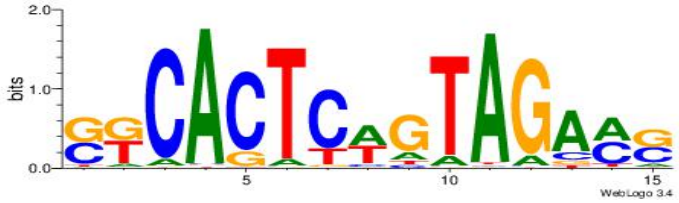
Reverse complement motif Consensus sequence: WSGASKSCAGCSMSGTSW

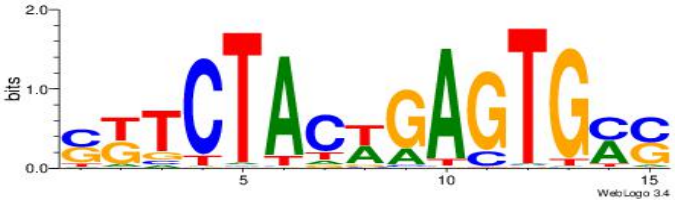


Dataset #: 1 Motif ID: 88 Motif name: C088

Original motif Consensus sequence: SKCACTCWGTAGAMS

Reverse complement motif Consensus sequence: SYTCTACWGAGTG





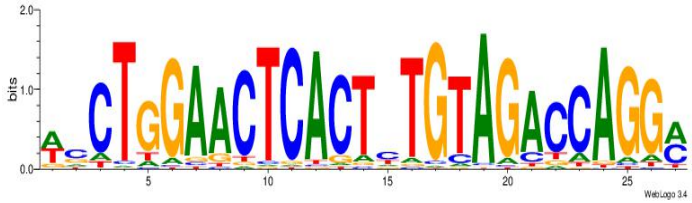
Best Matches for Motif ID 88 (Highest to Lowest)

Dataset #:	1
Motif ID:	13
Motif name:	C013
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	9
Number of overlap:	15
Similarity score:	0

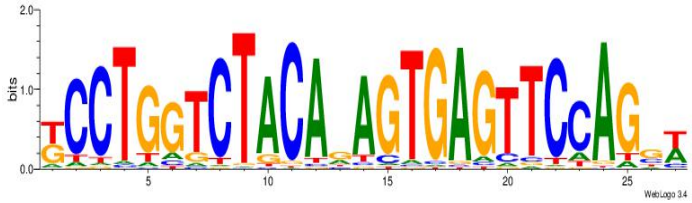
Alignment:

```
WVCTGGAACTCACTHTGTAGACCAGGM
--------SKCACTCWGTAGAMS----
```

Original motif Consensus sequence:
WVCTGGAACTCACTHTGTAGACCAGGM



Reverse complement motif Consensus sequence:
YCCTGGTCTACADAGTGAGTTCCAGVW

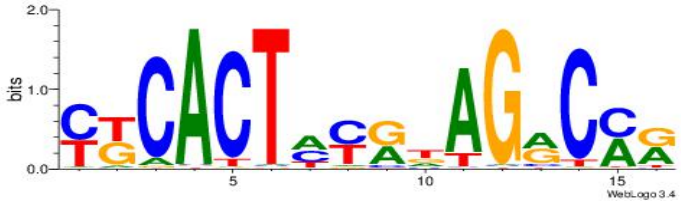


Dataset #:	1
Motif ID:	89
Motif name:	C089
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	15
Similarity score:	0.00807426

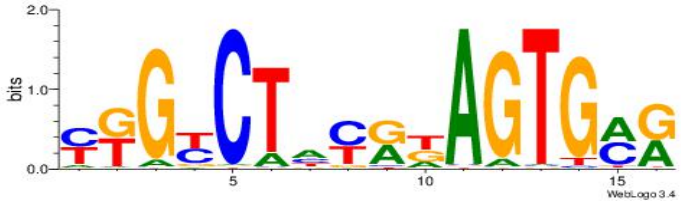
Alignment:

```
YKCACTMYRDAGRCMR
SKCACTCWGTAGAMS-
```

Original motif Consensus sequence: YKCACTMYRDAGRCMR



Reverse complement motif Consensus sequence: MRGKCTDMKYAGTGRK

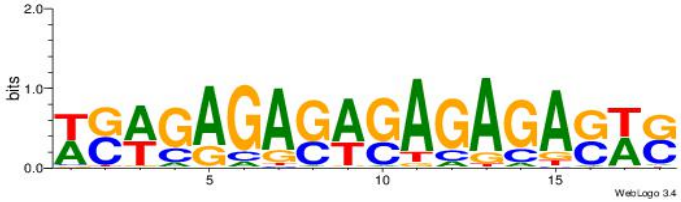


Dataset #:	1
Motif ID:	17
Motif name:	C017
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3

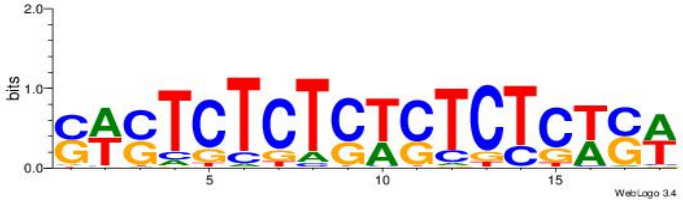
Number of overlap: 15
Similarity score: 0.0441447

Alignment:
WSWGAGASWSAGAGASWS
--SYTCTACWGAGTGYS-

Original motif Consensus sequence: WSWGAGASWSAGAGASWS



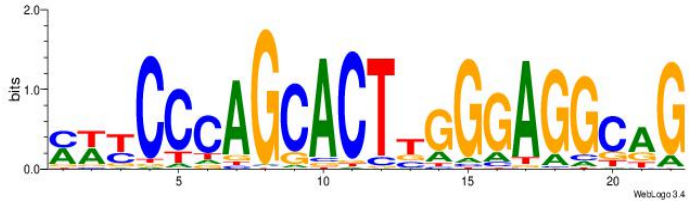
Reverse complement motif Consensus sequence: SWSTCTCTSWSTCTCWSW



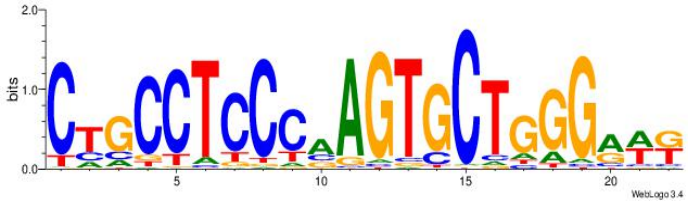
Dataset #: 1
Motif ID: 19
Motif name: C019
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 7
Number of overlap: 15
Similarity score: 0.0452176

Alignment:
MWYCCCAGCACTTGGGAGGCAG
------SKCACTCWGTAGAMS-

Original motif Consensus sequence: MWYCCCAGCACTTGGGAGGCAG



Reverse complement motif Consensus sequence: CTGCCTCCCAAGTGCTGGGMWR

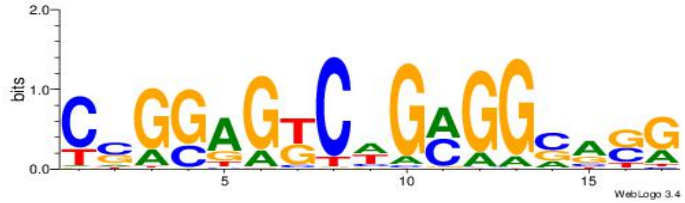


Dataset #:	1
Motif ID:	86
Motif name:	C086
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	15
Similarity score:	0.0452921

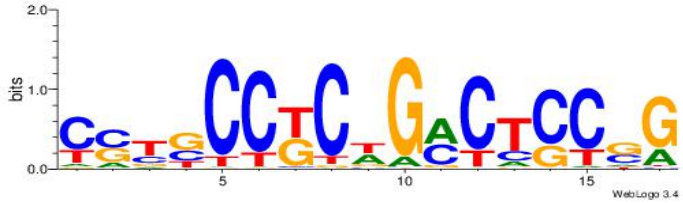
Alignment:

```
CSGGAGKCWGMGGSASG
-SKCACTCWGTAGAMS-
```

Original motif Consensus sequence: CSGGAGKCWGMGGSASG

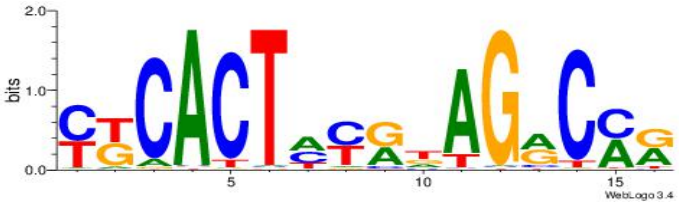


Reverse complement motif Consensus sequence: CSTSCCYCWGRCTCCSG

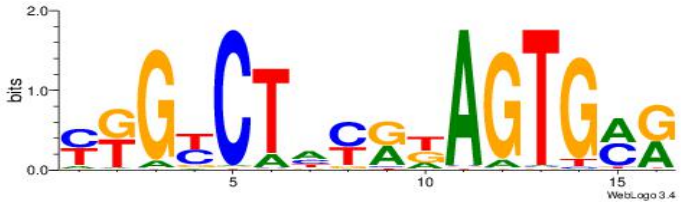


Dataset #: 1 **Motif ID: 89** **Motif name: C089**

Original motif Consensus sequence: YKCACTMYRDAGRCMR



Reverse complement motif Consensus sequence: MRGKCTDMKYAGTGRK



Best Matches for Motif ID 89 (Highest to Lowest)

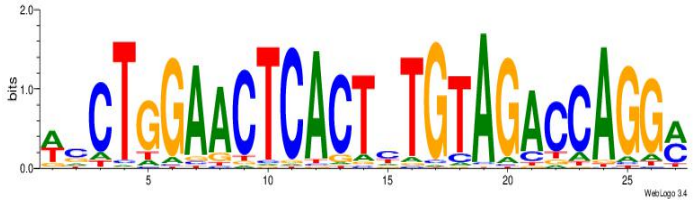
Dataset #:	1
Motif ID:	13
Motif name:	C013
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	9
Number of overlap:	16
Similarity score:	0.00883756

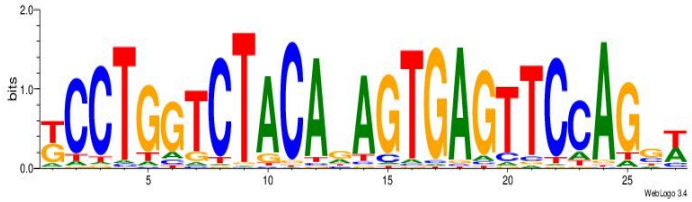
Alignment:

```
WVCTGGAACTCACTHTGTAGACCAGGM
--------YKCACTMYRDAGRCMR---
```

Original motif Consensus sequence: WVCTGGAACTCACTHTGTAGACCAGGM

Reverse complement motif Consensus sequence: YCCTGGTCTACADAGTGAGTTCCAGVW



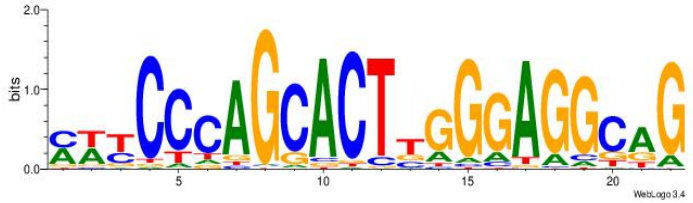


Dataset #:	1
Motif ID:	19
Motif name:	C019
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	16
Similarity score:	0.0298537

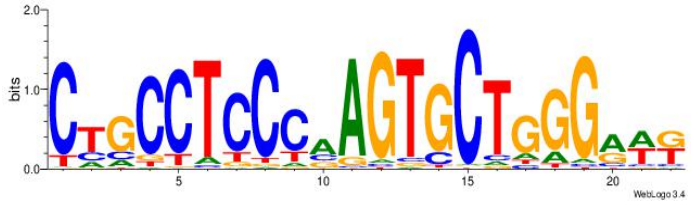
Alignment:

```
MWYCCCAGCACTTGGGAGGCAG
------YKCACTMYRDAGRCMR
```

Original motif Consensus sequence: MWYCCCAGCACTTGGGAGGCAG



Reverse complement motif Consensus sequence: CTGCCTCCCAAGTGCTGGGMWR



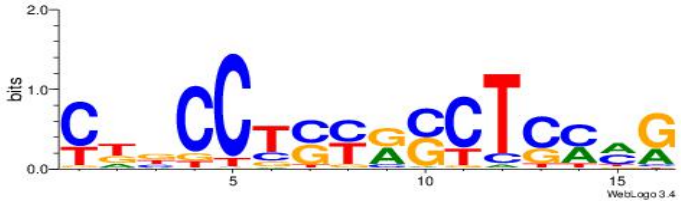
Dataset #: 1

Motif ID:	83
Motif name:	C083
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	16
Similarity score:	0.0453026

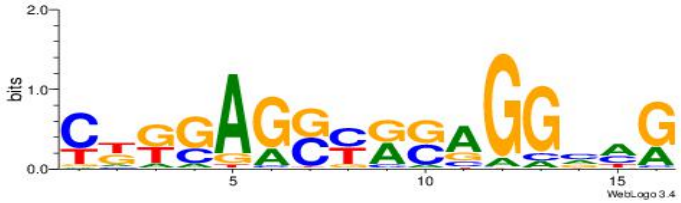
Alignment:

```
CKBCCTSYRSCTCMMG
YKCACTMYRDAGRCMR
```

Original motif Consensus sequence: CKBCCTSYRSCTCMMG



Reverse complement motif Consensus sequence: CYRGAGSMKSAGGBRG

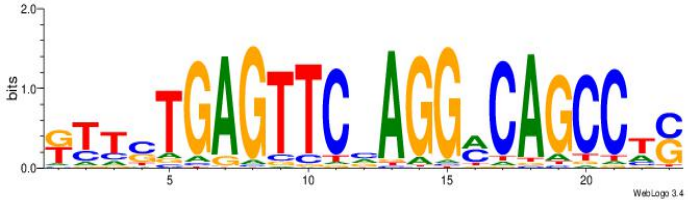


Dataset #:	1
Motif ID:	7
Motif name:	C007
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	16

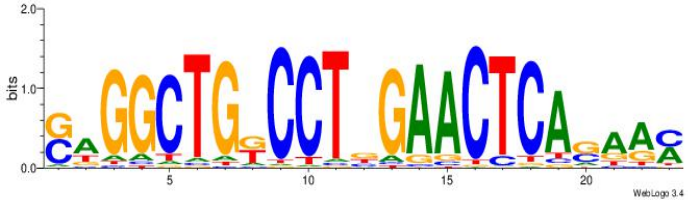
Similarity score: 0.0523729

Alignment:
KTTSTGAGTTCVAGGMCAGCCTS
---YKCACTMYRDAGRCMR----

Original motif Consensus sequence: KTTSTGAGTTCVAGGMCAGCCTS



Reverse complement motif Consensus sequence: SAGGCTGYCCTVGAACTCASAAY

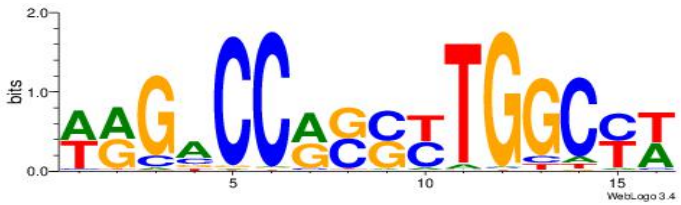


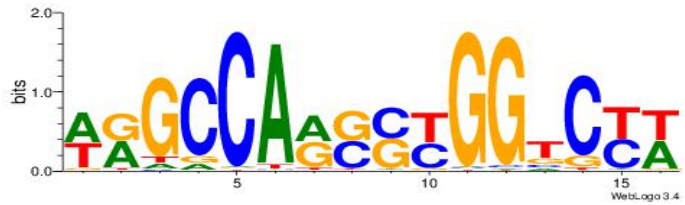
Dataset #: 1
Motif ID: 87
Motif name: C087
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 16
Similarity score: 0.054

Alignment:
WRGACCRSSYTGGCYW
YKCACTMYRDAGRCMR

Original motif Consensus sequence: WRGACCRSSYTGGCYW

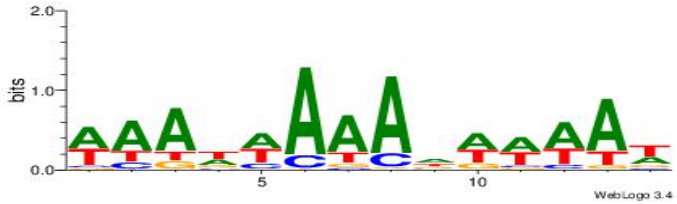
Reverse complement motif Consensus sequence: WKGCCAMSSKGGTCKW



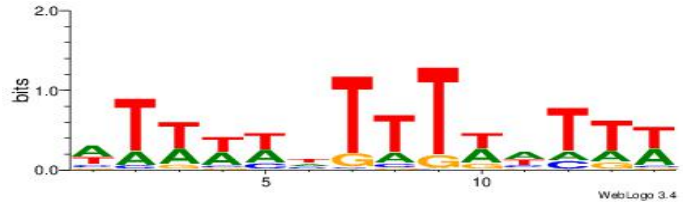


Dataset #: 1 **Motif ID: 90** **Motif name: C090**

Original motif Consensus sequence: WAAWWAAADWWWAW



Reverse complement motif Consensus sequence: WTWWWDTTTWWTTW



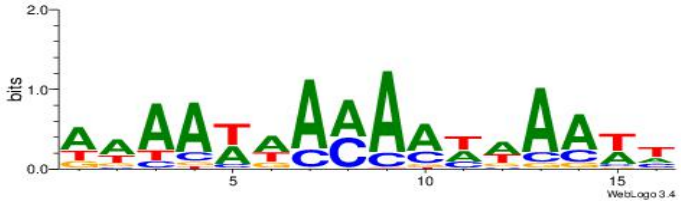
Best Matches for Motif ID 90 (Highest to Lowest)

Dataset #:	1
Motif ID:	98
Motif name:	C098
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.0116821

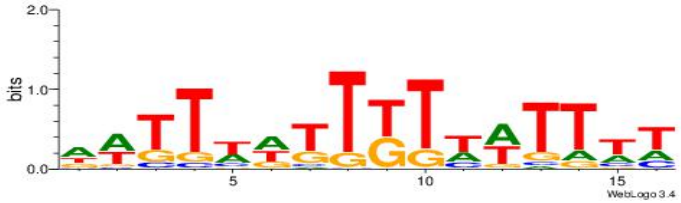
Alignment:

HWTTWWTTYTWWTTTT
-WTWWWDTTTWWTTW-

Original motif Consensus sequence: AAAAWWAMAAWWAAWH



Reverse complement motif Consensus sequence: HWTTWWTTYTWWTTTT

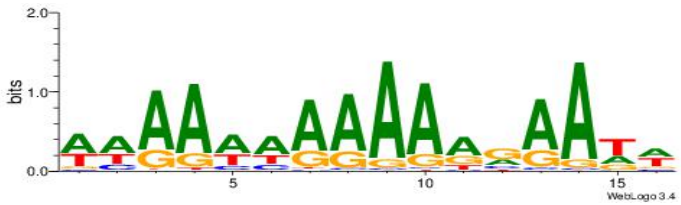


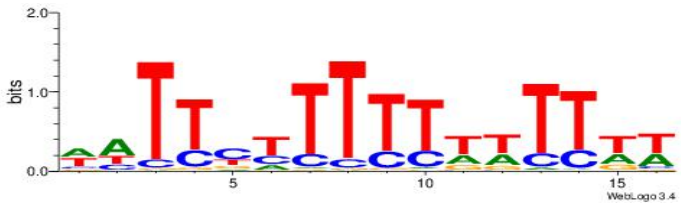
Dataset #:	1
Motif ID:	43
Motif name:	C043
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.0235146

Alignment:
WWAAWAAAAAARAATW
-WAAWWAAADWWWAW-

Original motif Consensus sequence: WWAAWAAAAAARAATW

Reverse complement motif Consensus sequence: WATTMTTTTTTWTTWW

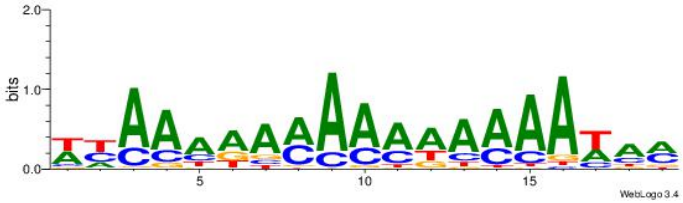




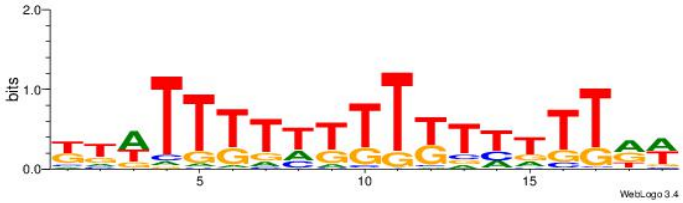
Dataset #: 1
Motif ID: 30
Motif name: C030
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 3
Number of overlap: 14
Similarity score: 0.0237672

Alignment:
WYAAAAAMAAAAAAAAWAM
---WAAWWAAADWWWAW--

Original motif Consensus sequence: WYAAAAAMAAAAAAAAWAM



Reverse complement motif Consensus sequence: YTWTTTTTTTTYTTTTTMW



Dataset #: 1

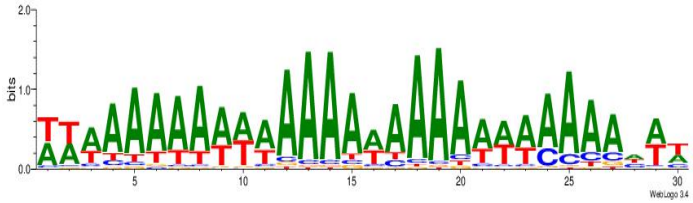
Motif ID:	1
Motif name:	C001
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	14
Similarity score:	0.0242608

Alignment:

```
WWHTTTTWWTTTTTWTTTTTWWTTTTTWWW
----------WTWWWDTTTWWTTW------
```

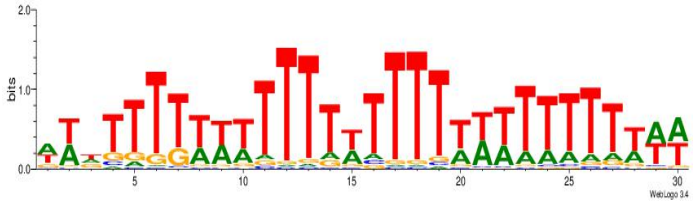
Original motif Consensus sequence:

WWWAAAAAWWAAAAAWAAAAAWWAAAAHWW



Reverse complement motif Consensus sequence:

WWHTTTTWWTTTTTWTTTTTWWTTTTTWWW

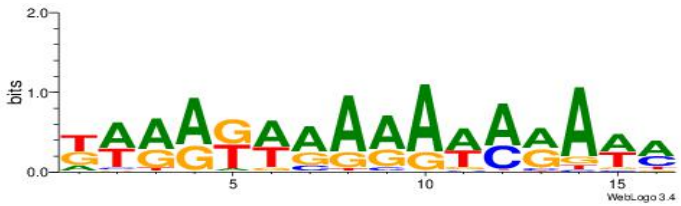


Dataset #:	1
Motif ID:	152
Motif name:	C152
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	14

Similarity score: 0.0256107

Alignment:
KWRRKWRARAWMRAWM
-WAAWWAAADWWWAW-

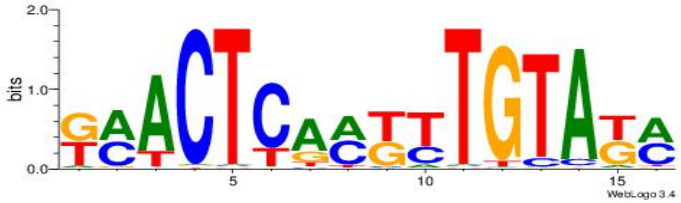
Original motif Consensus sequence: KWRRKWRARAWMRAWM



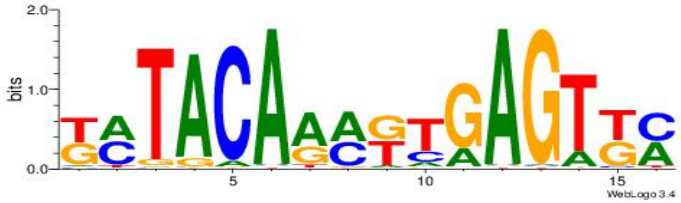
Reverse complement motif Consensus sequence: YWTKYWTKTKWYKKWR

Dataset #: 1 Motif ID: 91 Motif name: C091

Original motif Consensus sequence: KMACTCAMKYTGTAKM



Reverse complement motif Consensus sequence: YRTACAMRYTGAGTYY



Best Matches for Motif ID 91 (Highest to Lowest)

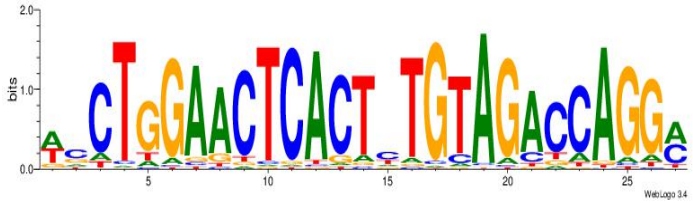
Dataset #:	1
Motif ID:	13
Motif name:	C013
Matching format of first motif:	Original Motif

Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	16
Similarity score:	0.00384196

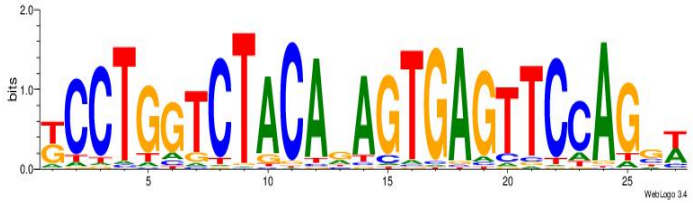
Alignment:

```
WVCTGGAACTCACTHTGTAGACCAGGM
-----KMACTCAMKYTGTAKM------
```

Original motif Consensus sequence:
WVCTGGAACTCACTHTGTAGACCAGGM



Reverse complement motif Consensus sequence:
YCCTGGTCTACADAGTGAGTTCCAGVW

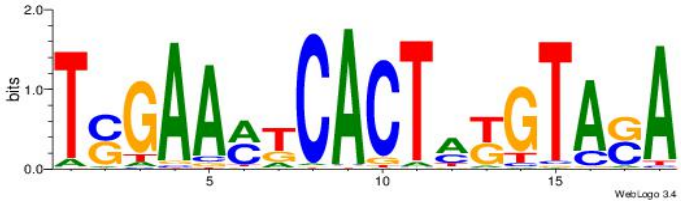


Dataset #:	1
Motif ID:	47
Motif name:	C047
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	16
Similarity score:	0.0310544

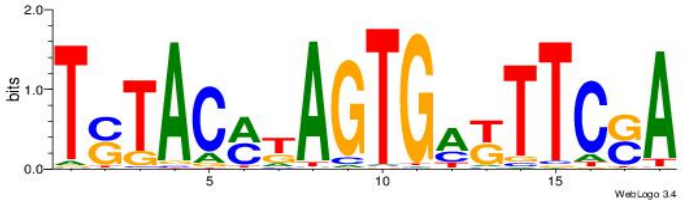
Alignment:

TSGAAMTCACTMKGTASA
--KMACTCAMKYTGTAKM

Original motif Consensus sequence: TSGAAMTCACTMKGTASA



Reverse complement motif Consensus sequence: TSTACRYAGTGAYTTCSA

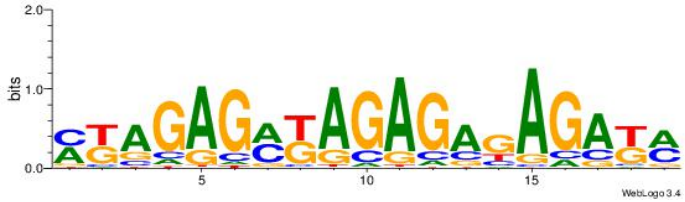


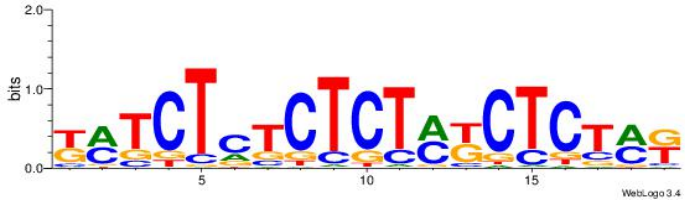
Dataset #:	1
Motif ID:	12
Motif name:	C012
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	16
Similarity score:	0.0540334

Alignment:
MKAGAGMKAGAGAGAGAKM
YRTACAMRYTGAGTYY---

Original motif Consensus sequence: MKAGAGMKAGAGAGAGAKM

Reverse complement motif Consensus sequence: YRTCTCTCTCTRYCTCTRR



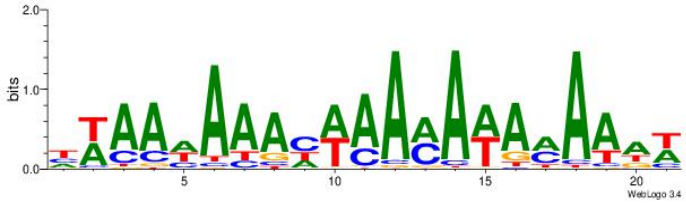


Dataset #:	1
Motif ID:	16
Motif name:	C016
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	16
Similarity score:	0.0563449

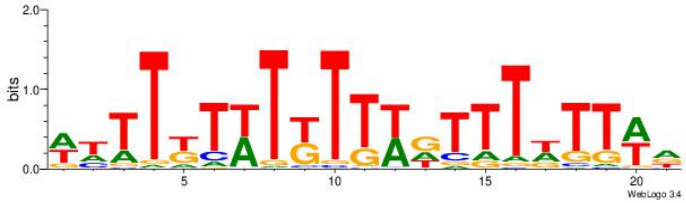
Alignment:

```
HWAAWAAAHWAAMAWAMAAWW
-----YRTACAMRYTGAGTYY
```

Original motif Consensus sequence: HWAAWAAAHWAAMAWAMAAWW



Reverse complement motif Consensus sequence: WWTTYTWTYTTWDTTTWTTWH



Dataset #:	1

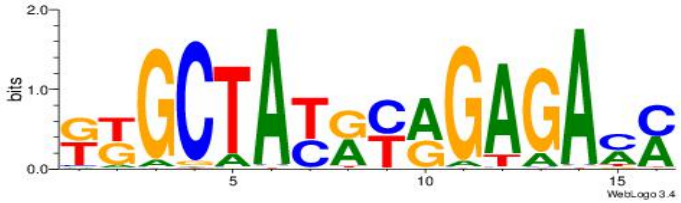
Motif ID:	129
Motif name:	C129
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	16
Similarity score:	0.0576399

Alignment:

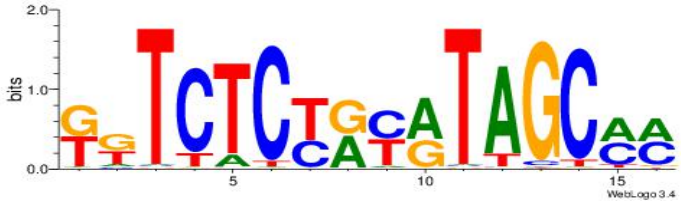
KKGCTAYRYRGAGAMM

YRTACAMRYTGAGTYY

Original motif Consensus sequence: KKGCTAYRYRGAGAMM

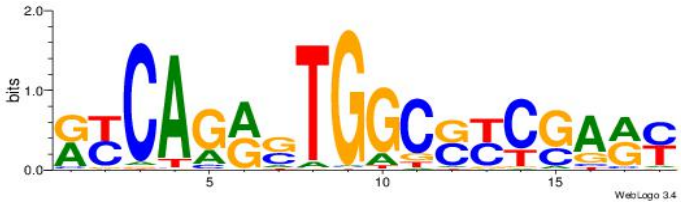


Reverse complement motif Consensus sequence: RRTCTCKKMMTAGCRY

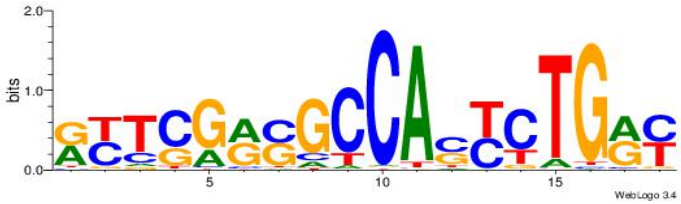


Dataset #: 1 Motif ID: 92 Motif name: C092

Original motif Consensus sequence: RYCAGRSTGGCSYCGARY



Reverse complement motif Consensus sequence: KKTCGMSGCCASKCTGMM

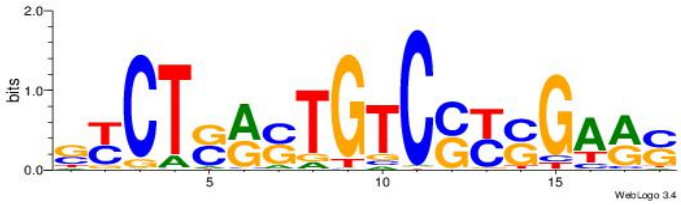


Best Matches for Motif ID 92 (Highest to Lowest)

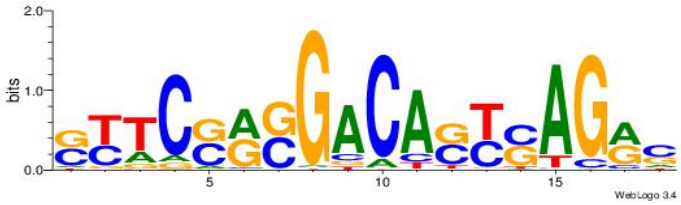
Dataset #:	1
Motif ID:	128
Motif name:	C128
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.0244788

Alignment:
SKTCSMSGACASKSAGMS
KKTCGMSGCCASKCTGMM

Original motif Consensus sequence: SYCTSRSTGTCSYSGARS



Reverse complement motif Consensus sequence: SKTCSMSGACASKSAGMS

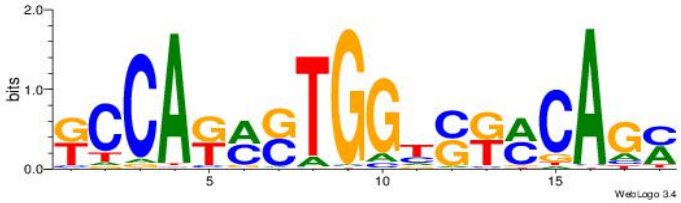


Dataset #:	1
Motif ID:	95
Motif name:	C095
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif

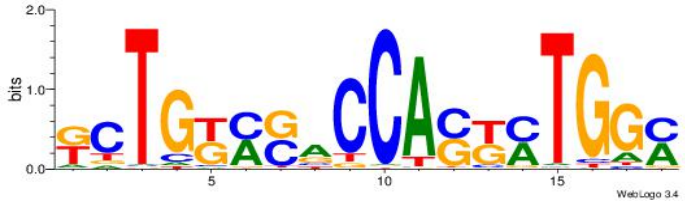
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.0314384

Alignment:
KCCAKMSTGGTSKMCAGM
RYCAGRSTGGCSYCGARY

Original motif Consensus sequence: KCCAKMSTGGTSKMCAGM



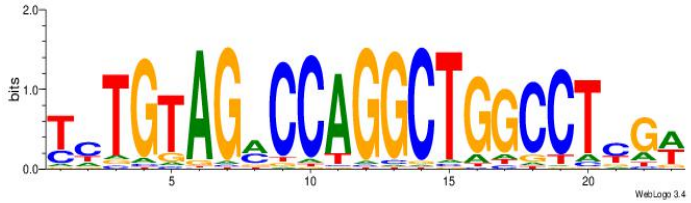
Reverse complement motif Consensus sequence: RCTGYYSACCASYYTGGY



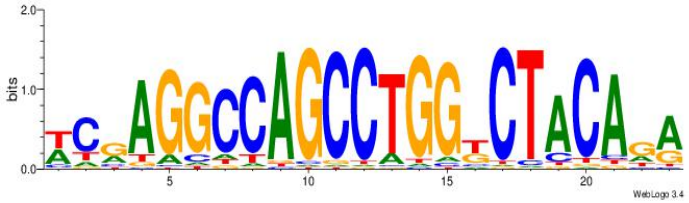
Dataset #:	1
Motif ID:	5
Motif name:	C005
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	18
Similarity score:	0.0593452

Alignment:
TCTGTAGMCCAGGCTGGCCTYGW
-----KKTCGMSGCCASKCTGMM

Original motif Consensus sequence: TCTGTAGMCCAGGCTGGCCTYGW



Reverse complement motif Consensus sequence: WCKAGGCCAGCCTGGYCTACAGA

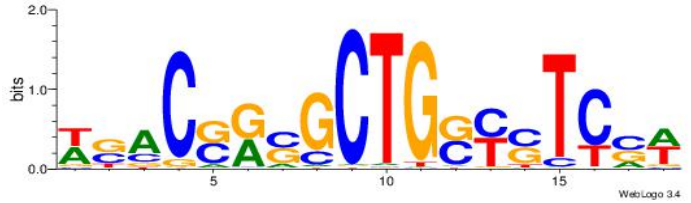


Dataset #:	1
Motif ID:	124
Motif name:	C124
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.0706106

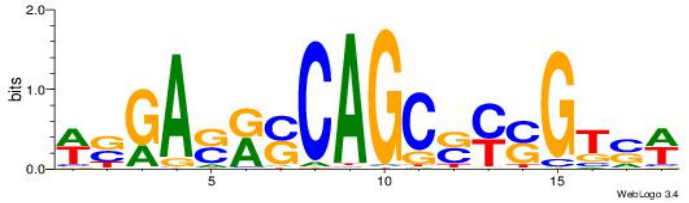
Alignment:

```
WSACSRSGCTGSYSTCSW
KKTCGMSGCCASKCTGMM
```

Original motif Consensus sequence: WSACSRSGCTGSYSTCSW



Reverse complement motif Consensus sequence: WSGASKSCAGCSMSGTSW

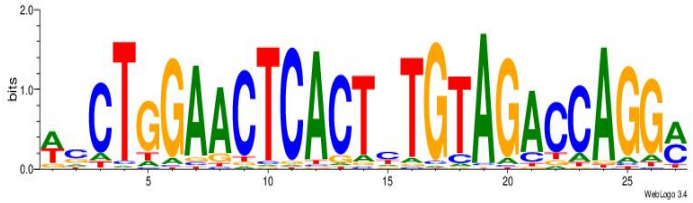


Dataset #:	1
Motif ID:	13
Motif name:	C013
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	9
Number of overlap:	18
Similarity score:	0.0712116

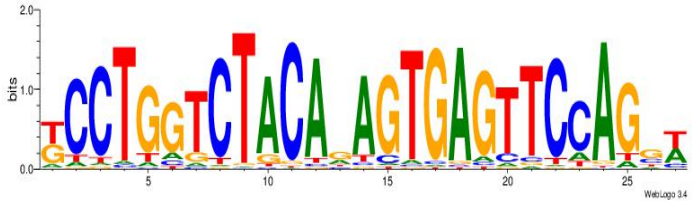
Alignment:

```
WVCTGGAACTCACTHTGTAGACCAGGM
--------KKTCGMSGCCASKCTGMM-
```

Original motif Consensus sequence:
WVCTGGAACTCACTHTGTAGACCAGGM



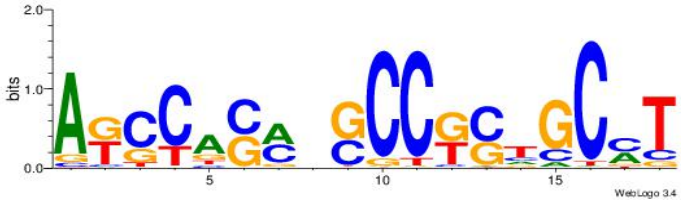
Reverse complement motif Consensus sequence:
YCCTGGTCTACADAGTGAGTTCCAGVW

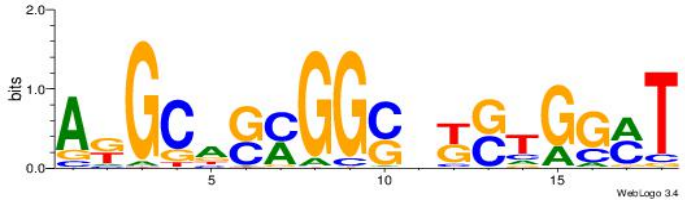


Dataset #: 1 Motif ID: 93 Motif name: C093

Original motif Consensus sequence: AKCCASMBSCCKSTGCMT

Reverse complement motif Consensus sequence:
ARGCASYGGSVYSTGGYT





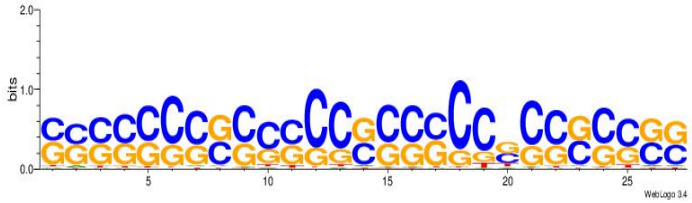
Best Matches for Motif ID 93 (Highest to Lowest)

Dataset #:	1
Motif ID:	4
Motif name:	C004
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	18
Similarity score:	0.0439494

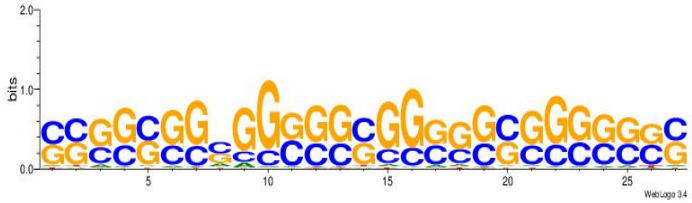
Alignment:

```
SSSSSCSSSSSCCSSSSCCSCSSSSSS
--AKCCASMBSCCKSTGCMT-------
```

Original motif Consensus sequence:
SSSSSCSSSSSCCSSSSCCSCSSSSSS



Reverse complement motif Consensus sequence:
SSSSSSGSGGSSSSGGSSSSSGSSSSS

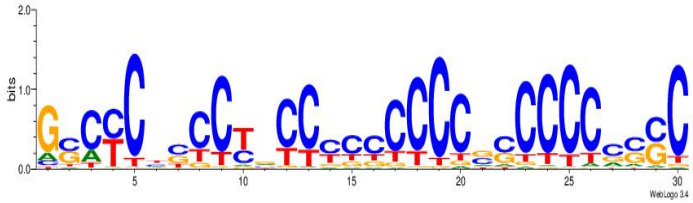


Dataset #:	1
Motif ID:	3
Motif name:	C003
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	10
Number of overlap:	18
Similarity score:	0.0490082

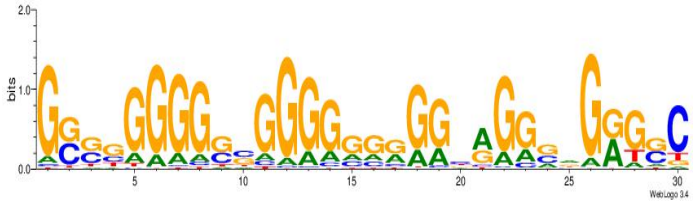
Alignment:

```
GSSGGGGGSSGGGGGGKGGVMGGSHGKGSC
---ARGCASYGGSVYSTGGYT---------
```

Original motif Consensus sequence:
GSCYCHSCCYVCCYCCCCCCSSCCCCCSSC



Reverse complement motif Consensus sequence:
GSSGGGGGSSGGGGGGKGGVMGGSHGKGSC

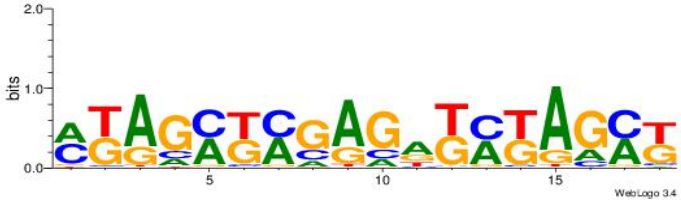


Dataset #:	1
Motif ID:	36
Motif name:	C036
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

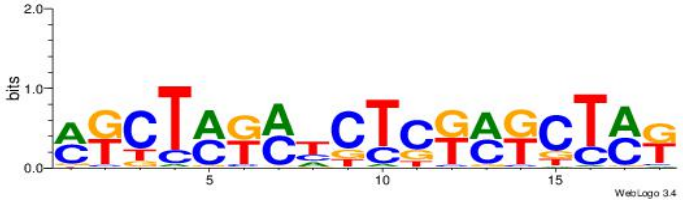
Number of overlap: 18
Similarity score: 0.0639349

Alignment:
RRCTRRRTCTCRRRCTRY
AKCCASMBSCCKSTGCMT

Original motif Consensus sequence: MKAGMKMGAGAKMKAGMK



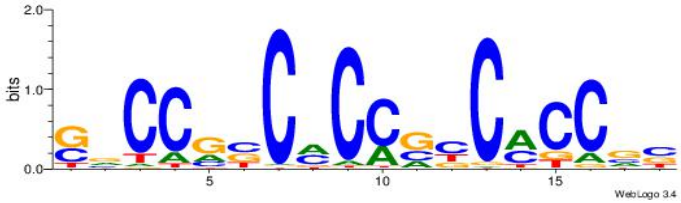
Reverse complement motif Consensus sequence: RRCTRRRTCTCRRRCTRY



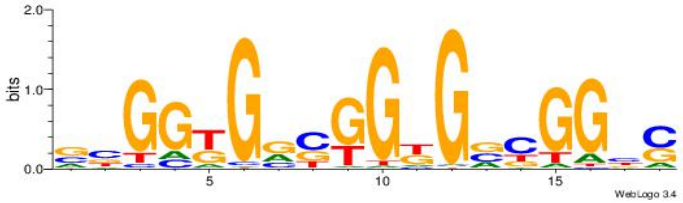
Dataset #: 1
Motif ID: 37
Motif name: C037
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 18
Similarity score: 0.0642642

Alignment:
SVCCGBCMCCSYCMCCVB
AKCCASMBSCCKSTGCMT

Original motif Consensus sequence: SVCCGBCMCCSYCMCCVB



Reverse complement motif Consensus sequence: BVGGYGKSGGYGBCGGVS

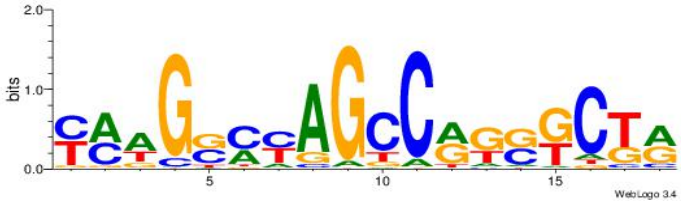


Dataset #:	1
Motif ID:	73
Motif name:	C073
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.0646787

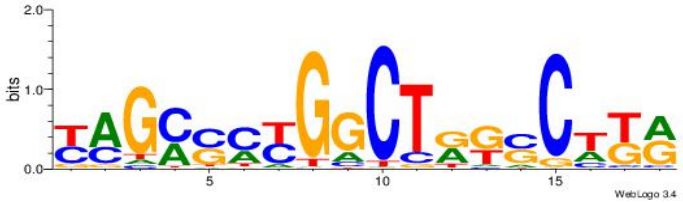
Alignment:

```
KAGYSYKGGCTKRSCWYK
ARGCASYGGSVYSTGGYT
```

Original motif Consensus sequence: YMWGSMYAGCCRKSKCTR

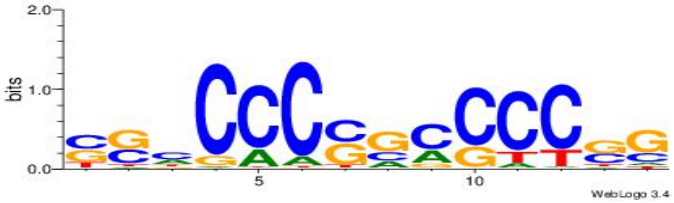


Reverse complement motif Consensus sequence: KAGYSYKGGCTKRSCWYK

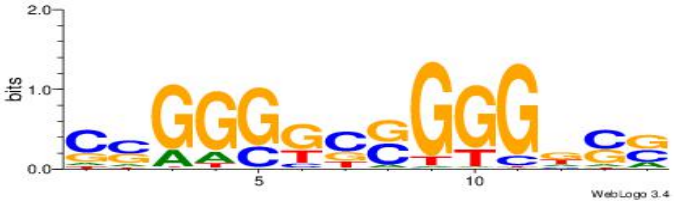


Dataset #: 1 **Motif ID: 94** **Motif name: C094**

Original motif Consensus sequence: SSHCCCSGCCCCSG



Reverse complement motif Consensus sequence: CSGGGGCSGGGD



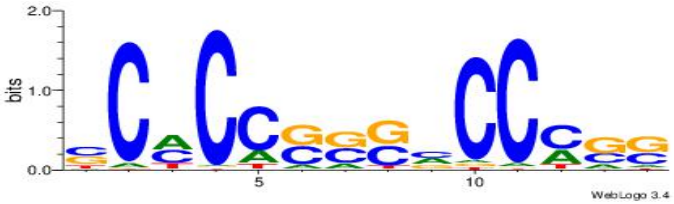
Best Matches for Motif ID 94 (Highest to Lowest)

Dataset #:	1
Motif ID:	102
Motif name:	C102
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.00913897

Alignment:

```
SCMCCSSSVCCMSS
SSHCCCSGCCCCSG
```

Original motif Consensus sequence: SCMCCSSSVCCMSS



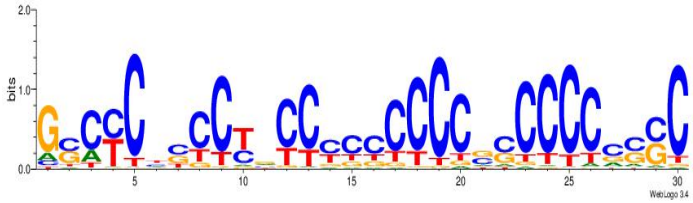
Reverse complement motif Consensus sequence: SSRGGVSSSGGYG

Dataset #:	1
Motif ID:	3
Motif name:	C003
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	15
Number of overlap:	14
Similarity score:	0.010898

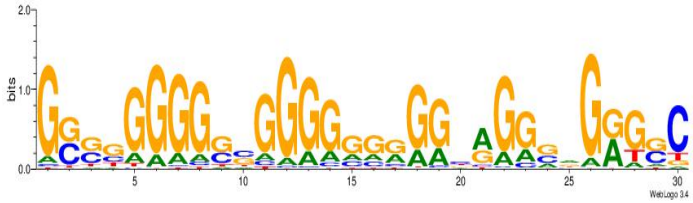
Alignment:

```
GSCYCHSCCYVCCYCCCCCCSSCCCCCSSC
--------------SSHCCCSGCCCCSG--
```

Original motif Consensus sequence:
GSCYCHSCCYVCCYCCCCCCSSCCCCCSSC



Reverse complement motif Consensus sequence:
GSSGGGGGSSGGGGGGKGGVMGGSHGKGSC

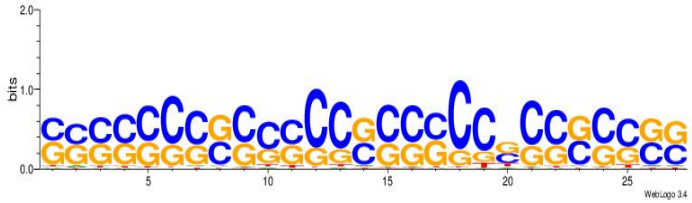


Dataset #:	1
Motif ID:	4
Motif name:	C004
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward

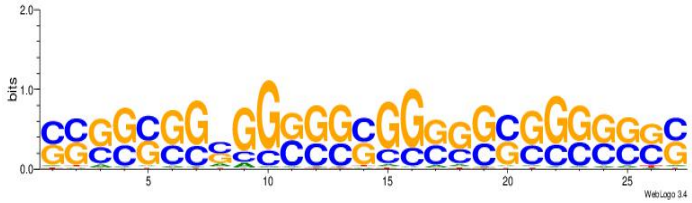
Position number: 8
Number of overlap: 14
Similarity score: 0.0158011

Alignment:
SSSSSSGSGGSSSSGGSSSSSGSSSSS
------CSGGGGCSGGGDSS-------

Original motif Consensus sequence:
SSSSSCSSSSSCCSSSSCCSCSSSSSS



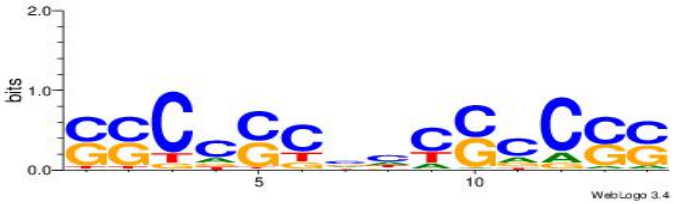
Reverse complement motif Consensus sequence:
SSSSSSGSGGSSSSGGSSSSSGSSSSS



Dataset #: 1
Motif ID: 23
Motif name: C023
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 14
Similarity score: 0.0224328

Alignment:
SSCCSCBHCSCCSS
SSHCCCSGCCCCSG

Original motif Consensus sequence: SSCCSCBHCSCCSS



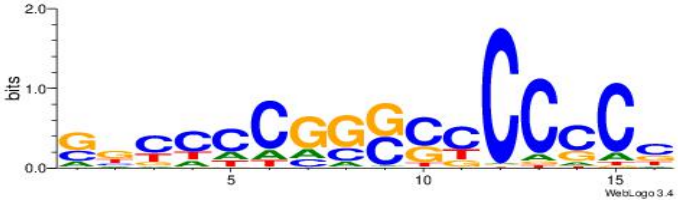
Reverse complement motif Consensus sequence: SSGGSGDBGSGGS

Dataset #:	1
Motif ID:	77
Motif name:	C077
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.0259051

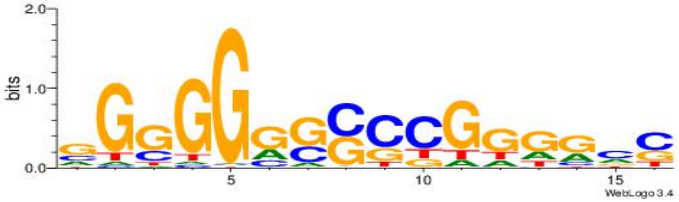
Alignment:

```
BGGGGGSSCCGGGGBS
--CSGGGGCSGGGDSS
```

Original motif Consensus sequence: SBCCCCGGSSCCCCCB

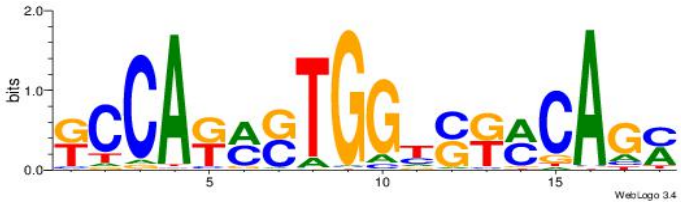


Reverse complement motif Consensus sequence: BGGGGGSSCCGGGGBS

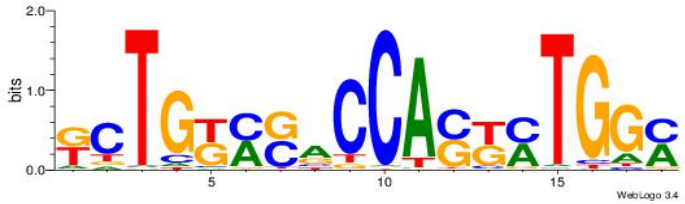


Dataset #: 1 **Motif ID: 95** **Motif name: C095**

Original motif Consensus sequence: KCCAKMSTGGTSKMCAGM



Reverse complement motif Consensus sequence: RCTGYYSACCASYYTGGY



Best Matches for Motif ID 95 (Highest to Lowest)

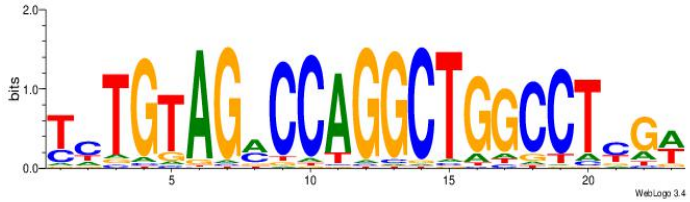
Dataset #:	1
Motif ID:	5
Motif name:	C005
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.0148007

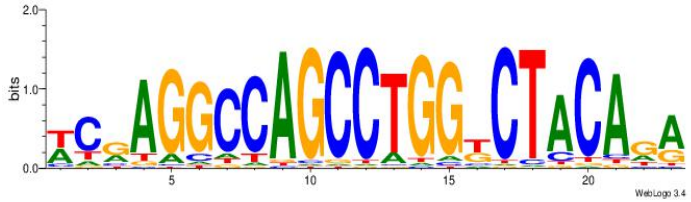
Alignment:

```
TCTGTAGMCCAGGCTGGCCTYGW
-----RCTGYYSACCASYYTGGY
```

Original motif Consensus sequence: TCTGTAGMCCAGGCTGGCCTYGW

Reverse complement motif Consensus sequence: WCKAGGCCAGCCTGGYCTACAGA

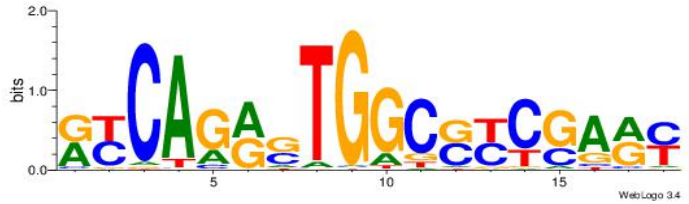




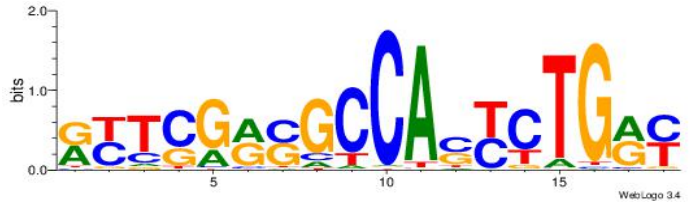
Dataset #:	1
Motif ID:	92
Motif name:	C092
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.0234986

Alignment:
RYCAGRSTGGCSYCGARY
KCCAKMSTGGTSKMCAGM

Original motif Consensus sequence: RYCAGRSTGGCSYCGARY



Reverse complement motif Consensus sequence: KKTCGMSGCCASKCTGMM



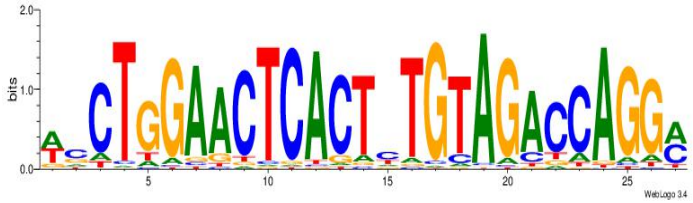
Dataset #:	1

Motif ID:	13
Motif name:	C013
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	9
Number of overlap:	18
Similarity score:	0.0466684

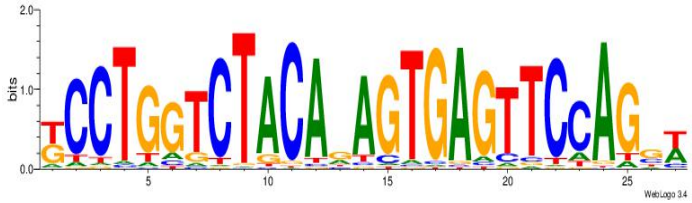
Alignment:

```
WVCTGGAACTCACTHTGTAGACCAGGM
--------RCTGYYSACCASYYTGGY-
```

Original motif Consensus sequence:
WVCTGGAACTCACTHTGTAGACCAGGM



Reverse complement motif Consensus sequence:
YCCTGGTCTACADAGTGAGTTCCAGVW

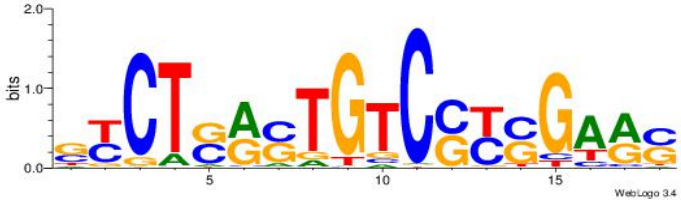


Dataset #:	1
Motif ID:	128
Motif name:	C128
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	18

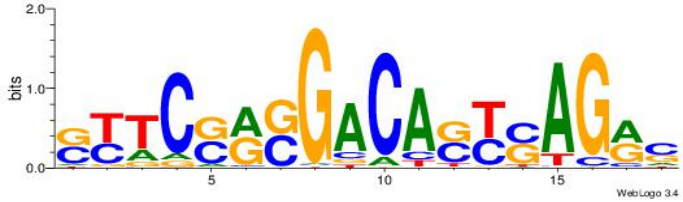
Similarity score: 0.0525333

Alignment:
SYCTSRSTGTCSYSGARS
KCCAKMSTGGTSKMCAGM

Original motif Consensus sequence: SYCTSRSTGTCSYSGARS



Reverse complement motif Consensus sequence: SKTCSMSGACASKSAGMS

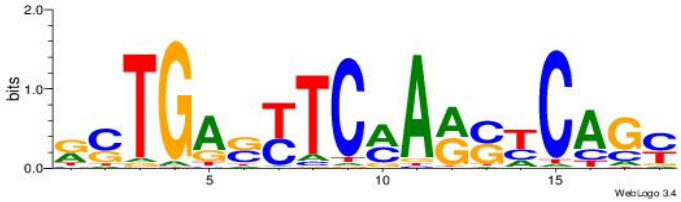


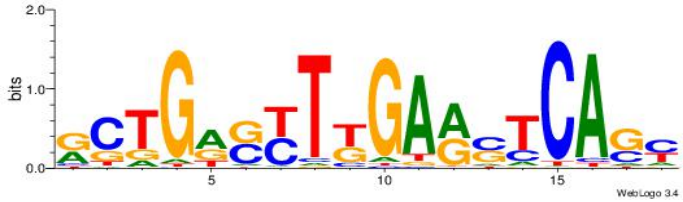
Dataset #: 1
Motif ID: 40
Motif name: C040
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 18
Similarity score: 0.0545308

Alignment:
KCTGMSKTYGAMSTCASM
KCCAKMSTGGTSKMCAGM

Original motif Consensus sequence: RSTGASYTCMARSYCAGY

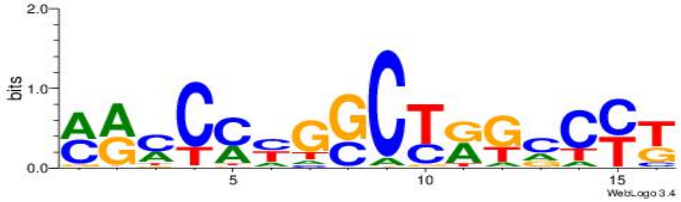
Reverse complement motif Consensus sequence: KCTGMSKTYGAMSTCASM



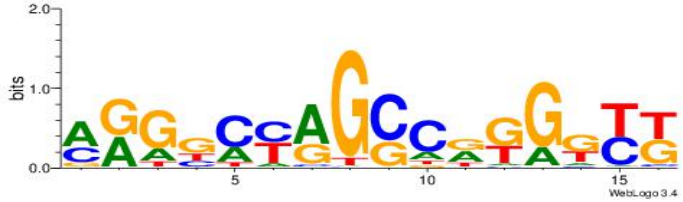


Dataset #: 1 Motif ID: 96 Motif name: C096

Original motif Consensus sequence: MRMCMYGSCYRGCCYK



Reverse complement motif Consensus sequence: RKGGCMMGSCKRGRKY



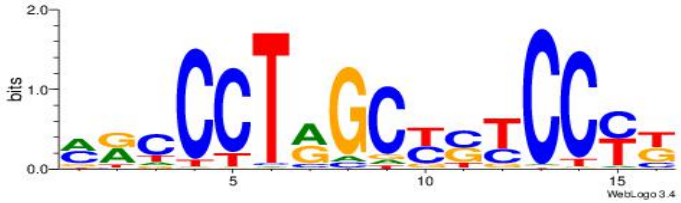
Best Matches for Motif ID 96 (Highest to Lowest)

Dataset #:	1
Motif ID:	121
Motif name:	C121
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	16
Similarity score:	0.00911622

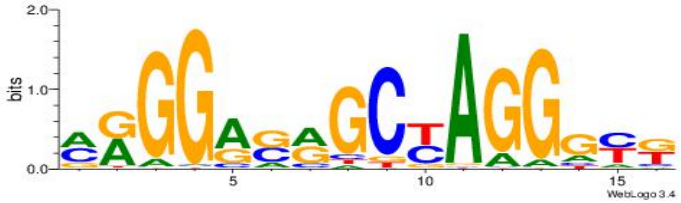
Alignment:

MRCCCTRGCYSTCCYK
MRMCMYGSCYRGCCYK

Original motif Consensus sequence: MRCCCTRGCYSTCCYK



Reverse complement motif Consensus sequence: RKGGASMGCKAGGGMY

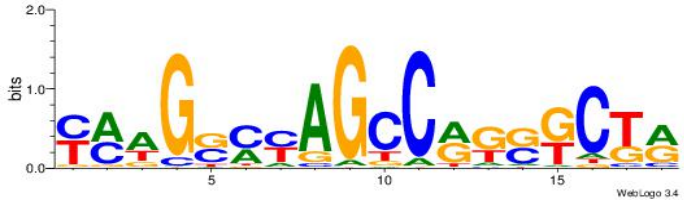


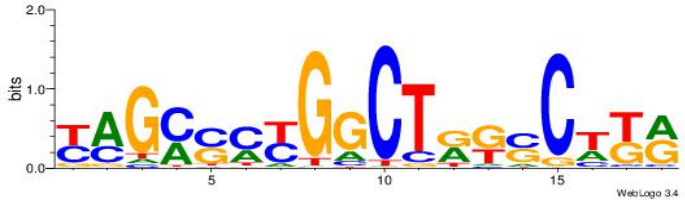
Dataset #:	1
Motif ID:	73
Motif name:	C073
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	16
Similarity score:	0.0193158

Alignment:
YMWGSMYAGCCRKSKCTR
-RKGGCMMGSCKRGRKY-

Original motif Consensus sequence: YMWGSMYAGCCRKSKCTR

Reverse complement motif Consensus sequence: KAGYSYKGGCTKRSCWYK



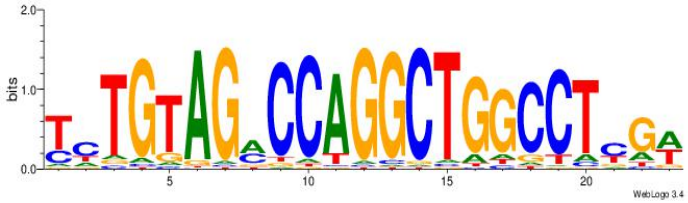


Dataset #:	1
Motif ID:	5
Motif name:	C005
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	16
Similarity score:	0.0223054

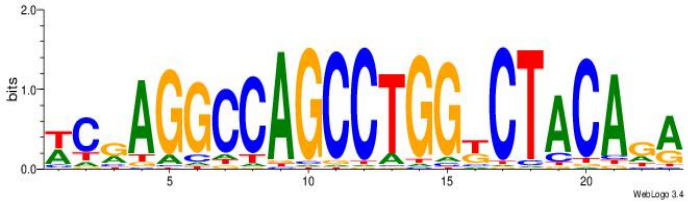
Alignment:

```
TCTGTAGMCCAGGCTGGCCTYGW
-----MRMCMYGSCYRGCCYK--
```

Original motif Consensus sequence: TCTGTAGMCCAGGCTGGCCTYGW



Reverse complement motif Consensus sequence: WCKAGGCCAGCCTGGYCTACAGA

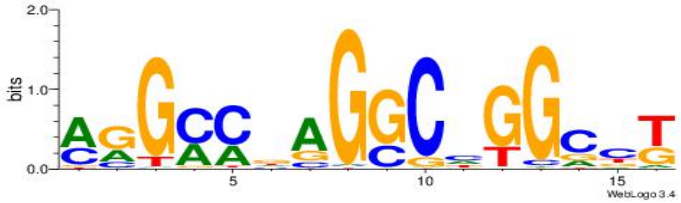


Dataset #: 1

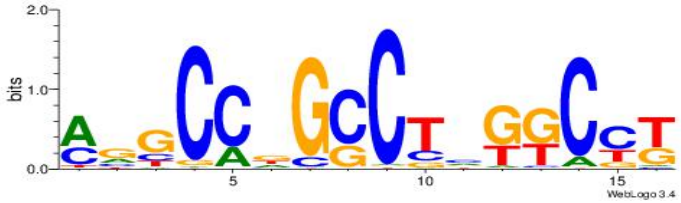
Motif ID:	61
Motif name:	C061
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.026179

Alignment:
MRGMMBAGGCHGGCCK
RKGGCMMGSCKRGRKY

Original motif Consensus sequence: MRGMMBAGGCHGGCCK



Reverse complement motif Consensus sequence: RGGCCDGCCTBRRCMY

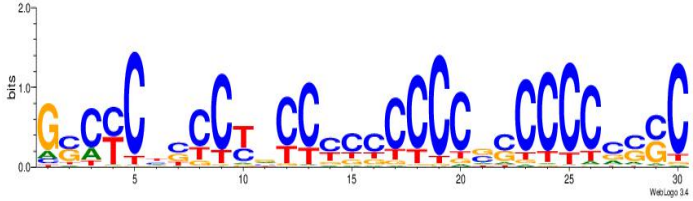


Dataset #:	1
Motif ID:	3
Motif name:	C003
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	16

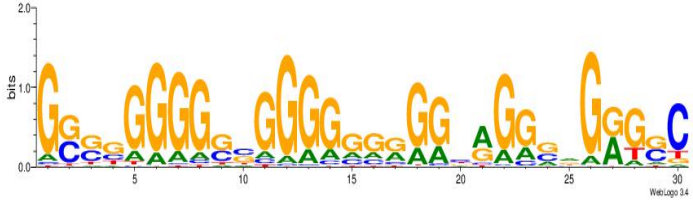
Similarity score: 0.0266849

Alignment:
GSCYCHSCCYVCCYCCCCCCSSCCCCCSSC
MRMCMYGSCYRGCCYK----------

Original motif Consensus sequence:
GSCYCHSCCYVCCYCCCCCCSSCCCCCSSC

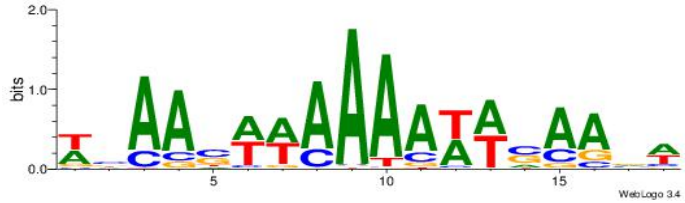


Reverse complement motif Consensus sequence:
GSSGGGGGSSGGGGGGKGGVMGGSHGKGSC

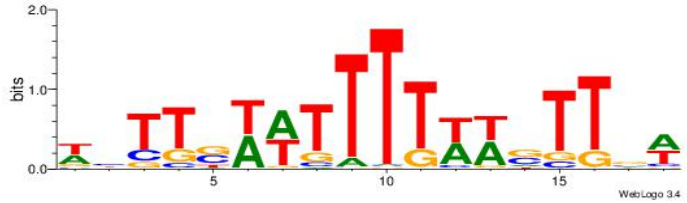


Dataset #: 1 Motif ID: 97 Motif name: C097

Original motif Consensus sequence: WBAASWWAAAAWWSAAVW



Reverse complement motif Consensus sequence:
WVTTSWWTTTTWWSTTBW



Best Matches for Motif ID 97 (Highest to Lowest)

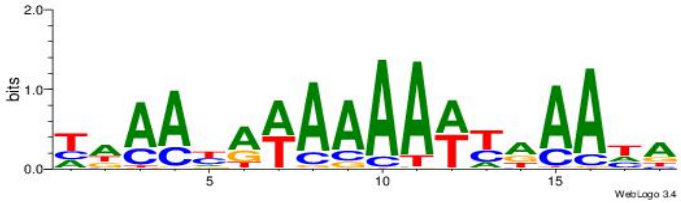
Dataset #:	1
Motif ID:	24
Motif name:	C024
Matching format of first motif:	Reverse Complement

Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.00734811

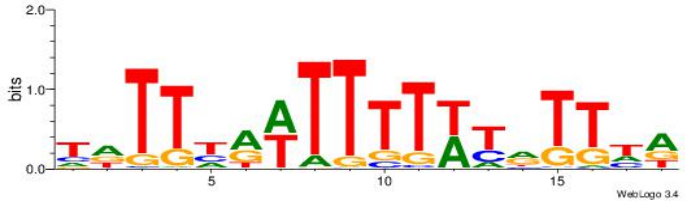
Alignment:

```
THTTDMWTTTTWKMTTDA
WVTTSWWTTTTWWSTTBW
```

Original motif Consensus sequence: TDAAYRWAAAAWYDAAHA



Reverse complement motif Consensus sequence: THTTDMWTTTTWKMTTDA

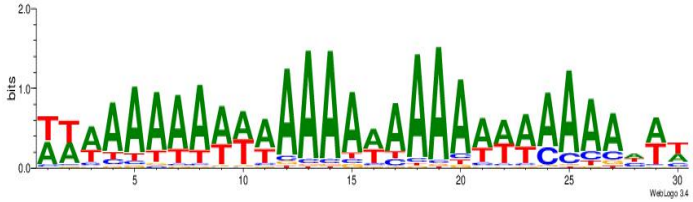


Dataset #:	1
Motif ID:	1
Motif name:	C001
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	18
Similarity score:	0.0172538

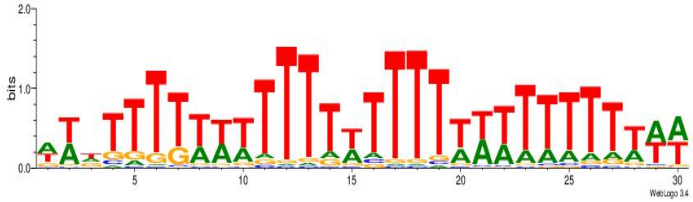
Alignment:

WWWAAAAAWWAAAAAWAAAAAWWAAAAHWW
---------WBAASWWAAAAWWSAAVW---

Original motif Consensus sequence:
WWWAAAAAWWAAAAAWAAAAAWWAAAAHWW



Reverse complement motif Consensus sequence:
WWHTTTTWWTTTTTWTTTTTWWTTTTTWWW

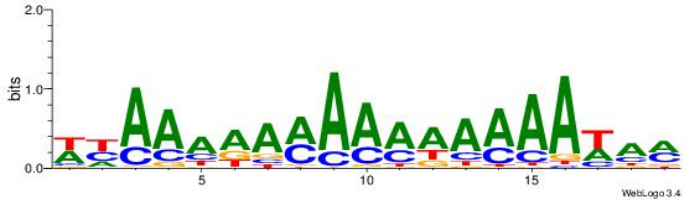


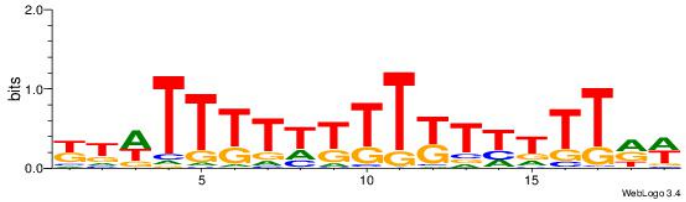
Dataset #:	1
Motif ID:	30
Motif name:	C030
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	18
Similarity score:	0.0179689

Alignment:
WYAAAAAMAAAAAAAAWAM
WBAASWWAAAAWWSAAVW-

Original motif Consensus sequence: WYAAAAAMAAAAAAAAWAM

Reverse complement motif Consensus sequence:
YTWTTTTTTTTYTTTTTMW

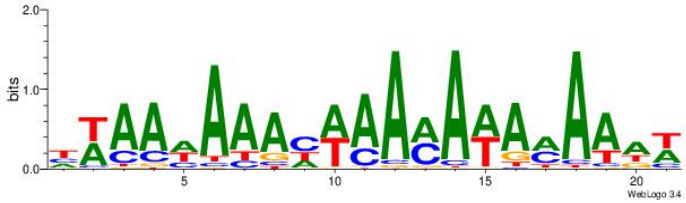




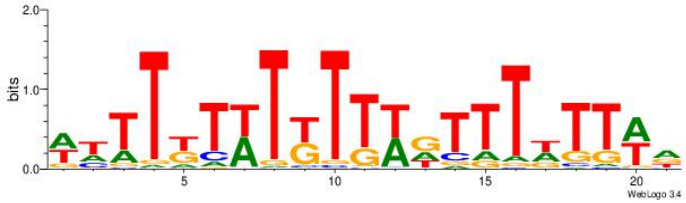
Dataset #: 1
Motif ID: 16
Motif name: C016
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 18
Similarity score: 0.0187638

Alignment:
HWAAWAAAHWAAMAWAMAAWW
---WBAASWWAAAAWWSAAVW

Original motif Consensus sequence: HWAAWAAAHWAAMAWAMAAWW



Reverse complement motif Consensus sequence: WWTTYTWTYTTWDTTTWTTWH



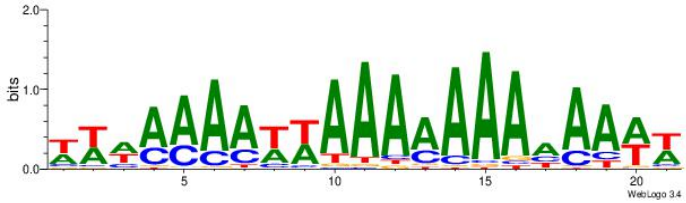
Dataset #: 1

Motif ID:	10
Motif name:	C010
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	18
Similarity score:	0.0198187

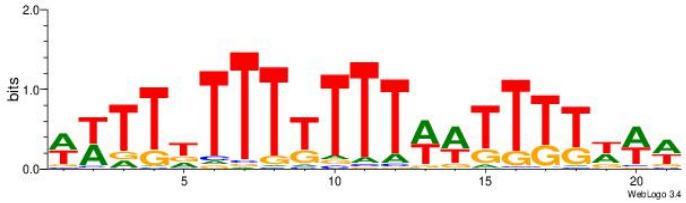
Alignment:

```
WWWAAAAWWAAAAAAAAAAWW
--WBAASWWAAAAWWSAAVW-
```

Original motif Consensus sequence: WWWAAAAWWAAAAAAAAAAWW

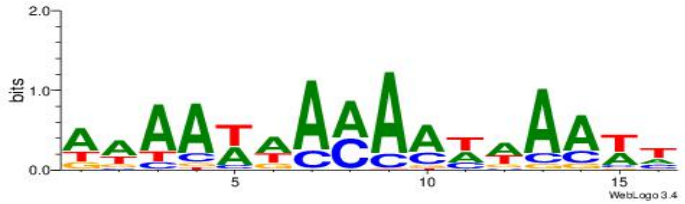


Reverse complement motif Consensus sequence: WWTTTTTTTTTTWWTTTTWWW

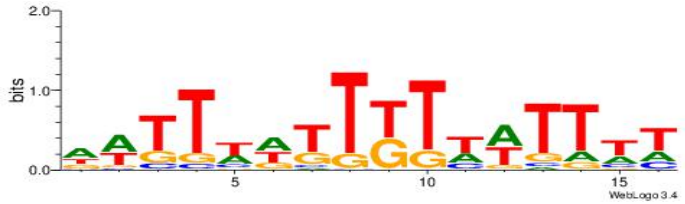


Dataset #: 1 Motif ID: 98 Motif name: C098

Original motif Consensus sequence: AAAAWWAMAAWWAAWH



Reverse complement motif Consensus sequence: HWTTWWTTYTWWTTTT



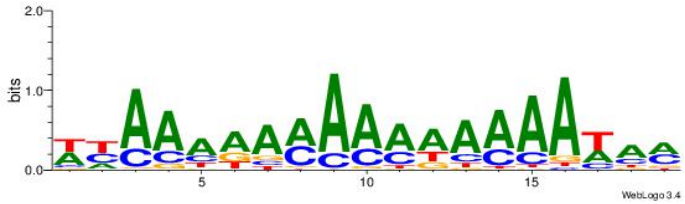
Best Matches for Motif ID 98 (Highest to Lowest)

Dataset #:	1
Motif ID:	30
Motif name:	C030
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	16
Similarity score:	0.0202744

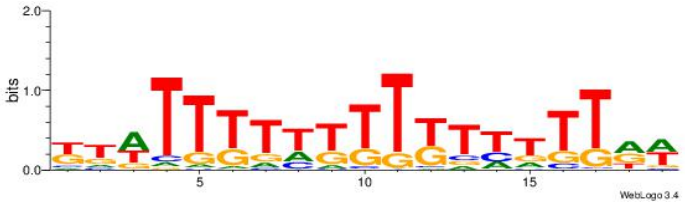
Alignment:

```
YTWTTTTTTTTYTTTTTMW
---HWTTWWTTYTWWTTTT
```

Original motif Consensus sequence: WYAAAAAMAAAAAAAAWAM



Reverse complement motif Consensus sequence: YTWTTTTTTTTYTTTTTMW



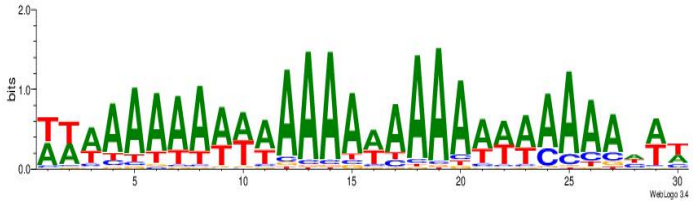
Dataset #:	1
Motif ID:	1
Motif name:	C001
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement

Direction:	Backward
Position number:	6
Number of overlap:	16
Similarity score:	0.0239726

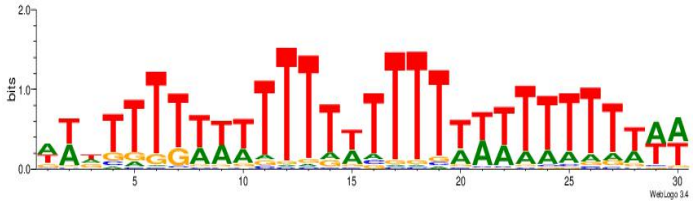
Alignment:

```
WWHTTTTWWTTTTTWTTTTTWWTTTTTWWW
---------HWTTWWTTYTWWTTTT-----
```

Original motif Consensus sequence:
WWWAAAAAWWAAAAAWAAAAAWWAAAAHWW



Reverse complement motif Consensus sequence:
WWHTTTTWWTTTTTWTTTTTWWTTTTTWWW

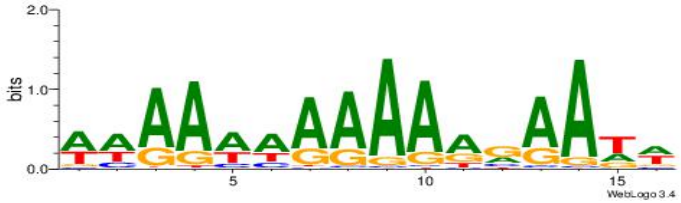


Dataset #:	1
Motif ID:	43
Motif name:	C043
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.024586

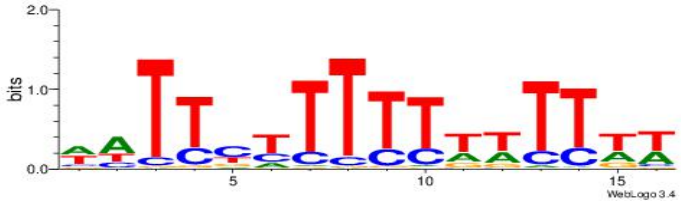
Alignment:

```
WATTMTTTTTTWTTWW
HWTTWWTTYTWWTTTT
```

Original motif Consensus sequence: WWAAWAAAAAARAATW



Reverse complement motif Consensus sequence: WATTMTTTTTWTTWW



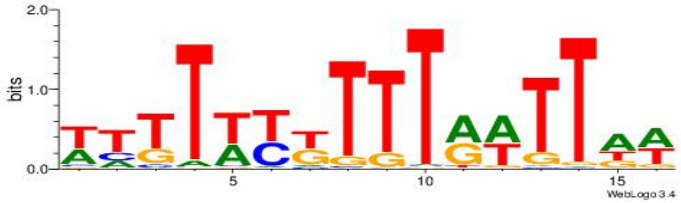
Dataset #:	1
Motif ID:	33
Motif name:	C033
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	16
Similarity score:	0.0280152

Alignment:

```
WWAAWYAAAMRWAAAW
AAAAWWAMAAWWAAWH
```

Original motif Consensus sequence: WWAAWYAAAMRWAAAW

Reverse complement motif Consensus sequence: WTTTWKYTTTMWTTWW

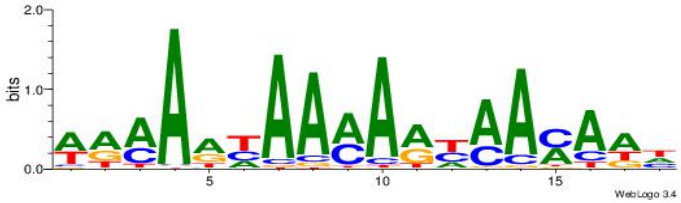


Dataset #:	1
Motif ID:	57
Motif name:	C057
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	16
Similarity score:	0.0292107

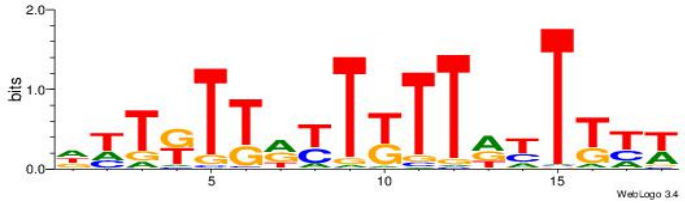
Alignment:

```
WRMARYAAMARYAAMAWH
-AAAAWWAMAAWWAAWH-
```

Original motif Consensus sequence: WRMARYAAMARYAAMAWH



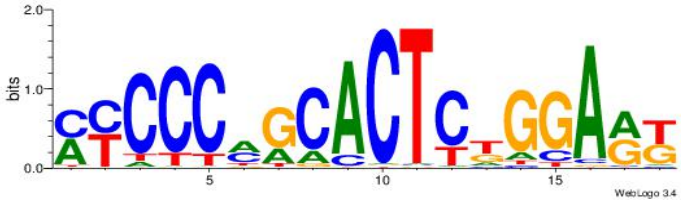
Reverse complement motif Consensus sequence: HWTRTTMKTYTTMKTYKW

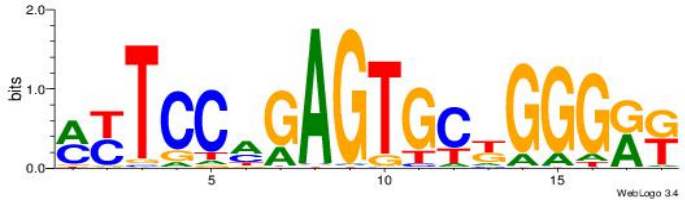


Dataset #: 1 Motif ID: 99 Motif name: C099

Original motif Consensus sequence: MYCCCMGCACTCKGGARK

Reverse complement motif Consensus sequence: RKTCCRGAGTGCYGGGKR





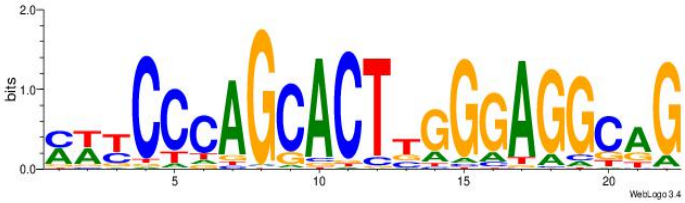
Best Matches for Motif ID 99 (Highest to Lowest)

Dataset #:	1
Motif ID:	19
Motif name:	C019
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	18
Similarity score:	0.00861288

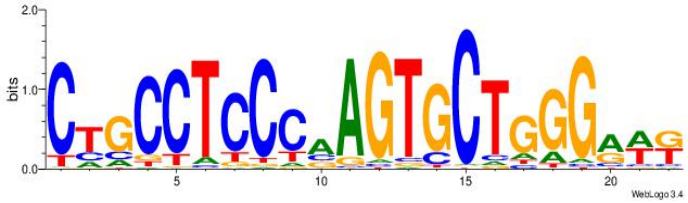
Alignment:

```
MWYCCCAGCACTTGGGAGGCAG
-MYCCCMGCACTCKGGARK---
```

Original motif Consensus sequence: MWYCCCAGCACTTGGGAGGCAG



Reverse complement motif Consensus sequence: CTGCCTCCCAAGTGCTGGGMWR

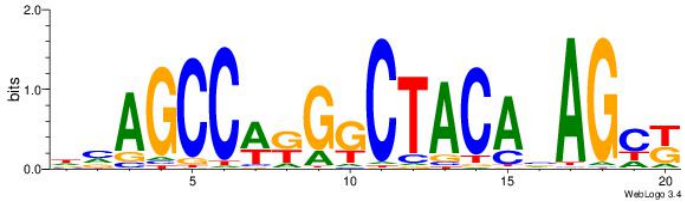


Dataset #:	1
Motif ID:	15
Motif name:	C015
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	18
Similarity score:	0.0548981

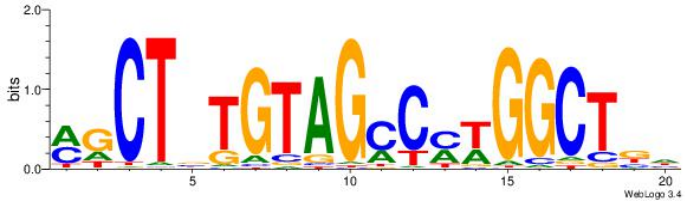
Alignment:

```
RGCTVTGTAGCCYWGGCTVD
-RKTCCRGAGTGCYGGGKR-
```

Original motif Consensus sequence: DVAGCCWKGGCTACAVAGCK



Reverse complement motif Consensus sequence: RGCTVTGTAGCCYWGGCTVD

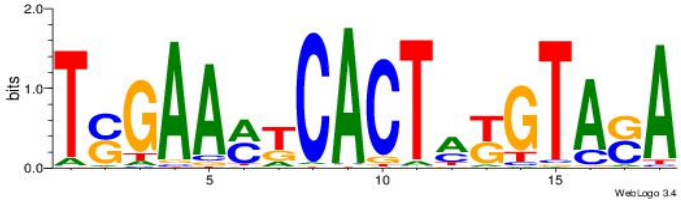


Dataset #:	1
Motif ID:	47
Motif name:	C047
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1

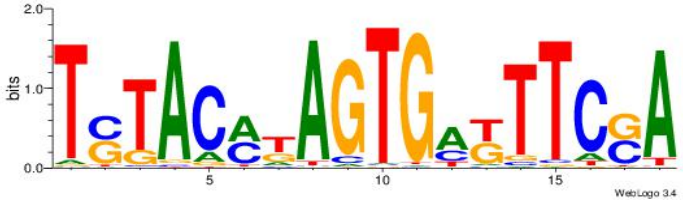
Number of overlap: 18
Similarity score: 0.0609013

Alignment:
TSTACRYAGTGAYTTCSA
RKTCCRGAGTGCYGGGKR

Original motif Consensus sequence: TSGAAMTCACTMKGTASA



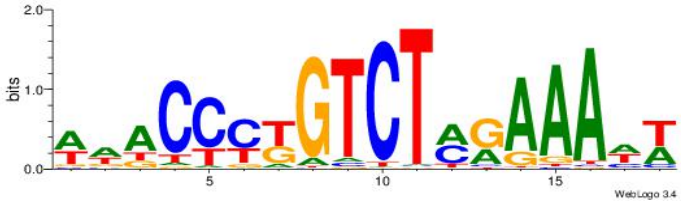
Reverse complement motif Consensus sequence: TSTACRYAGTGAYTTCSA



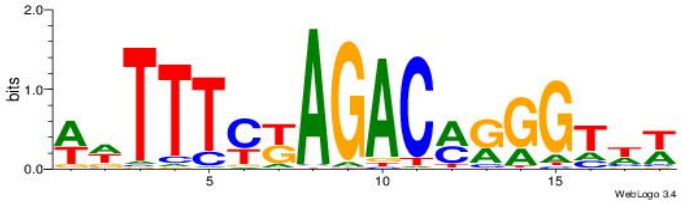
Dataset #: 1
Motif ID: 35
Motif name: C035
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 18
Similarity score: 0.065329

Alignment:
WWACCYKGTCTMRAAAWW
MYCCCMGCACTCKGGARK

Original motif Consensus sequence: WWACCYKGTCTMRAAAWW



Reverse complement motif Consensus sequence: WWTTTMYAGACRKGGTWW

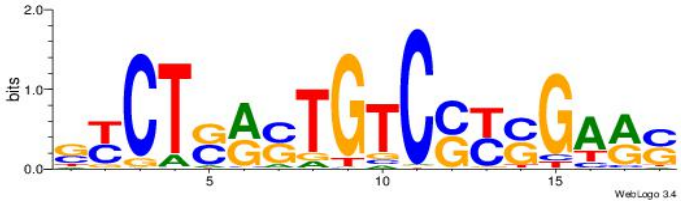


Dataset #:	1
Motif ID:	128
Motif name:	C128
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.0707153

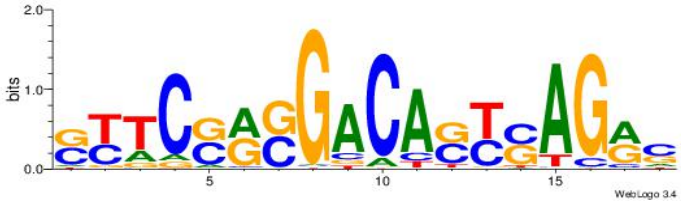
Alignment:

```
SKTCSMSGACASKSAGMS
MYCCCMGCACTCKGGARK
```

Original motif Consensus sequence: SYCTSRSTGTCSYSGARS

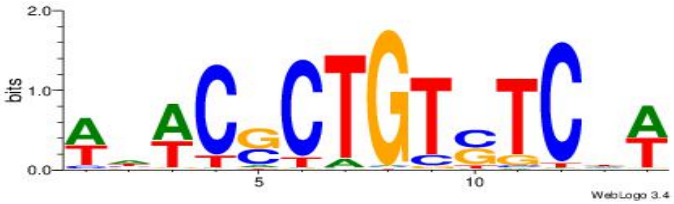


Reverse complement motif Consensus sequence: SKTCSMSGACASKSAGMS



Dataset #: 1 Motif ID: 100 Motif name: C100

Original motif Consensus sequence: WDWCSCTGTSTCHW



Reverse complement motif Consensus sequence: WHGASACAGSGWDW

Best Matches for Motif ID 100 (Highest to Lowest)

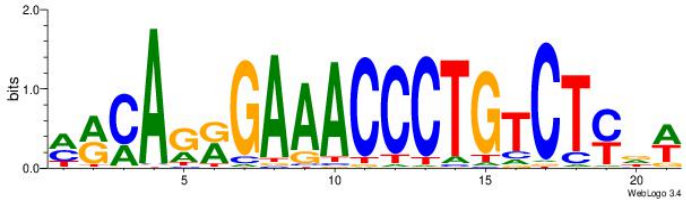
Dataset #:	1
Motif ID:	27
Motif name:	C027
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0

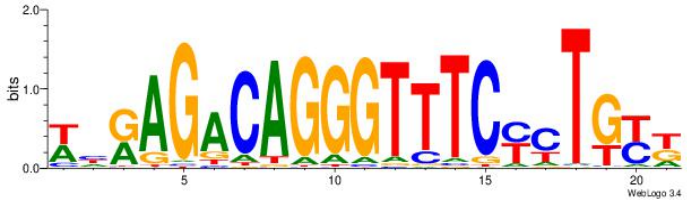
Alignment:

```
WHKAGACAGGGTTTCMCTGKY
WHGASACAGSGWDW-------
```

Original motif Consensus sequence: MRCAGRGAAACCCTGTCTYDW

Reverse complement motif Consensus sequence: WHKAGACAGGGTTTCMCTGKY



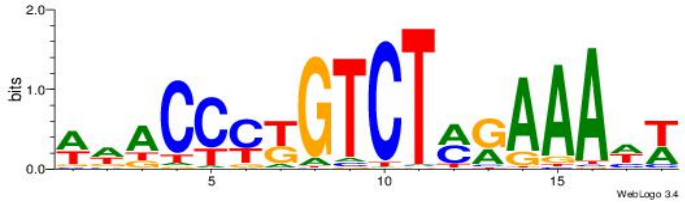


Dataset #:	1
Motif ID:	35
Motif name:	C035
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	14
Similarity score:	0.0117194

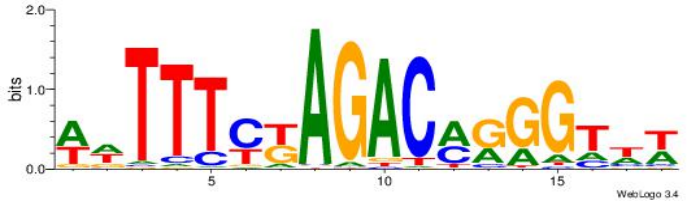
Alignment:

```
WWACCYKGTCTMRAAAWW
WDWCSCTGTSTCHW----
```

Original motif Consensus sequence: WWACCYKGTCTMRAAAWW



Reverse complement motif Consensus sequence: WWTTTMYAGACRKGGTWW



Dataset #:	1

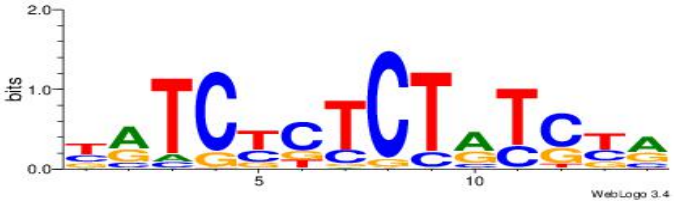
Motif ID:	78
Motif name:	C078
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.0349672

Alignment:

```
KMTCKCTCTMTCKM
WDWCSCTGTSTCHW
```

Original motif Consensus sequence: YRGAYAGAGRGAYR

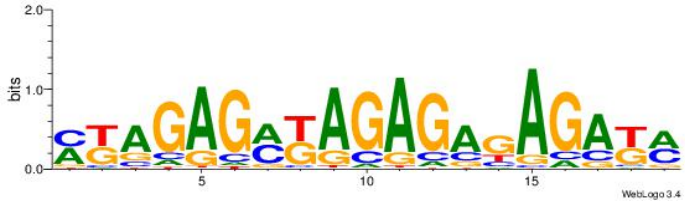
Reverse complement motif Consensus sequence: KMTCKCTCTMTCK



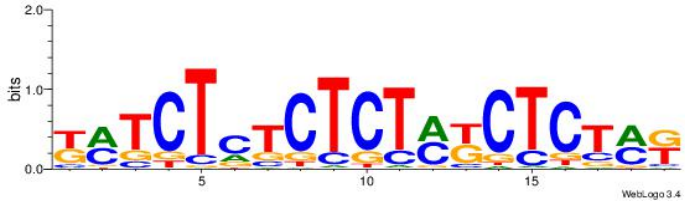
Dataset #:	1
Motif ID:	12
Motif name:	C012
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	14
Similarity score:	0.0350639

Alignment:
MKAGAGMKAGAGAGAGAKM
----WHGASACAGSGWDW-

Original motif Consensus sequence: MKAGAGMKAGAGAGAGAKM



Reverse complement motif Consensus sequence: YRTCTCTCTCTRYCTCTRR

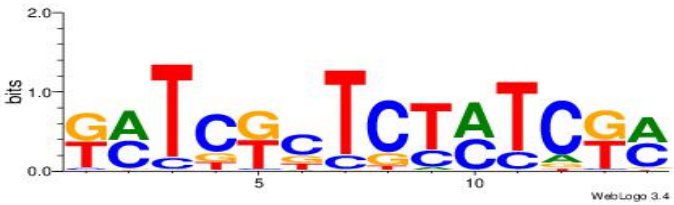


Dataset #:	1
Motif ID:	25
Motif name:	C025
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.036247

Alignment:
RRTCRCTCTRTCRR
WDWCSCTGTSTCHW

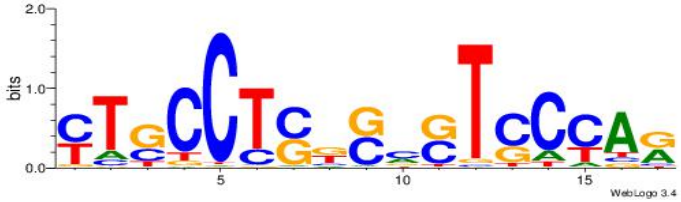
Original motif Consensus sequence: KMGAKAGAGMGAKM

Reverse complement motif Consensus sequence: RRTCRCTCTRTCRR

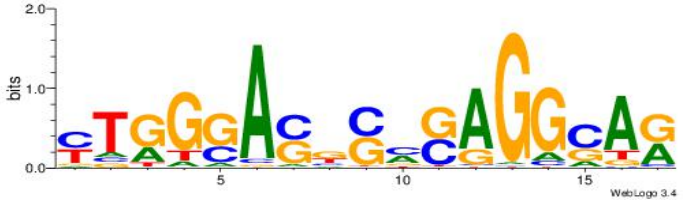


Dataset #: 1 Motif ID: 101 Motif name: C101

Original motif Consensus sequence: YTSCCTSKSVSTCCCAR



Reverse complement motif Consensus sequence: MTGGGASVSYSAGGSAK



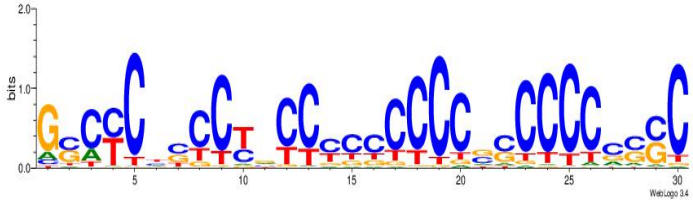
Best Matches for Motif ID 101 (Highest to Lowest)

Dataset #:	1
Motif ID:	3
Motif name:	C003
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	17
Similarity score:	0.0555244

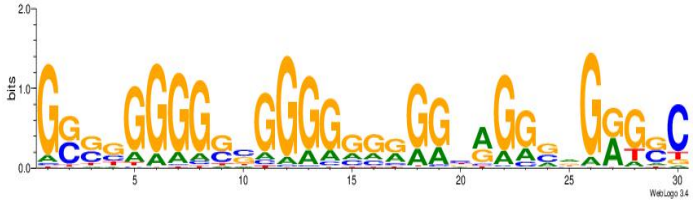
Alignment:

GSCYCHSCCYVCCYCCCCCCSSCCCCCSSC
----YTSCCTSKSVSTCCCAR---------

Original motif Consensus sequence:
GSCYCHSCCYVCCYCCCCCCSSCCCCCSSC



Reverse complement motif Consensus sequence:
GSSGGGGGSSGGGGGGKGGVMGGSHGKGSC

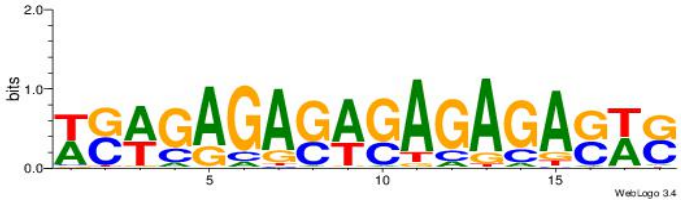


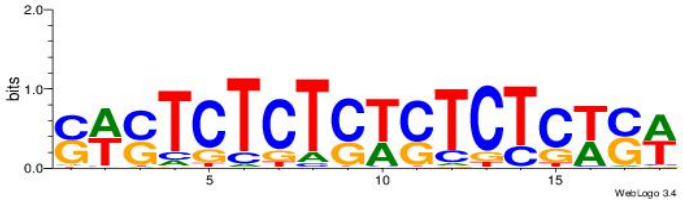
Dataset #:	1
Motif ID:	17
Motif name:	C017
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.0606098

Alignment:
SWSTCTCTSWSTCTCWSW
-YTSCCTSKSVSTCCCAR

Original motif Consensus sequence: WSWGAGASWSAGAGASWS

Reverse complement motif Consensus sequence:
SWSTCTCTSWSTCTCWSW

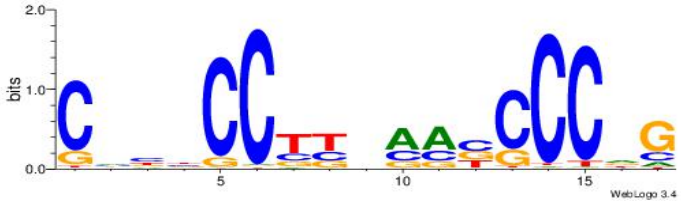




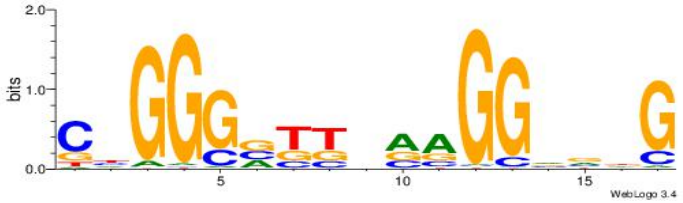
Dataset #: 1
Motif ID: 107
Motif name: C107
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 17
Similarity score: 0.06682

Alignment:
CHBBCCTYBAABCCCDG
YTSCCTSKSVSTCCCAR

Original motif Consensus sequence: CHBBCCTYBAABCCCDG



Reverse complement motif Consensus sequence: CDGGGBTTVMAGGVBHG



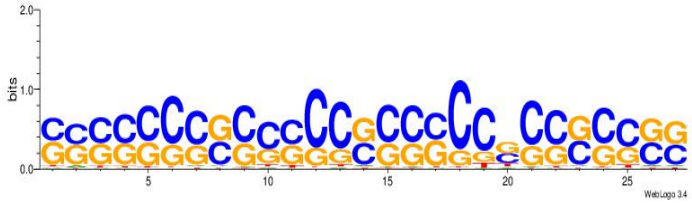
Dataset #: 1

Motif ID:	4
Motif name:	C004
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.0671341

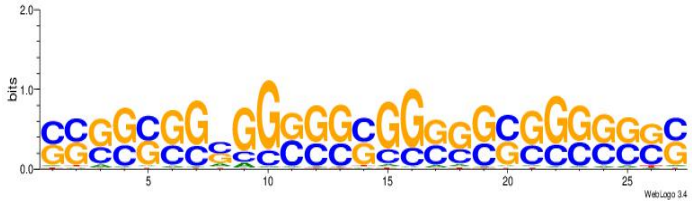
Alignment:

```
SSSSSCSSSSSCCSSSSCCSCSSSSSS
--------YTSCCTSKSVSTCCCAR--
```

Original motif Consensus sequence:
SSSSSCSSSSSCCSSSSCCSCSSSSSS



Reverse complement motif Consensus sequence:
SSSSSSGSGGSSSSGGSSSSSGSSSSS

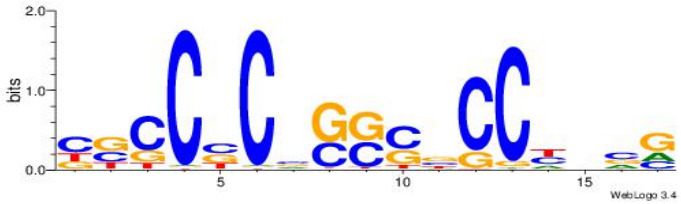


Dataset #:	1
Motif ID:	140
Motif name:	C140
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	17

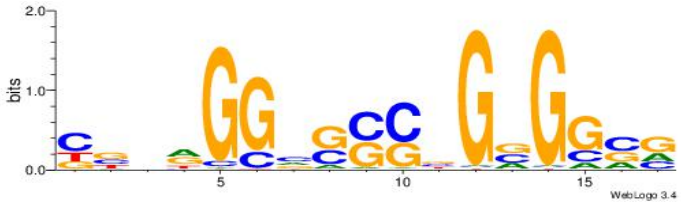
Similarity score: 0.0676017

Alignment:
BSCCBCVSSSBCCYHVG
YTSCCTSKSVSTCCCAR

Original motif Consensus sequence: BSCCBCVSSSBCCYHVG

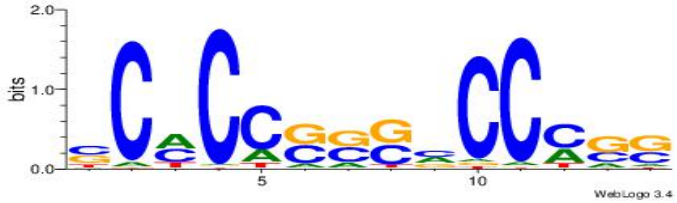


Reverse complement motif Consensus sequence: CVDMGGBSSSVGBGGSB



Dataset #: 1 Motif ID: 102 Motif name: C102

Original motif Consensus sequence: SCMCCSSSVCCMSS



Reverse complement motif Consensus sequence: SSRGGVSSSGGYG

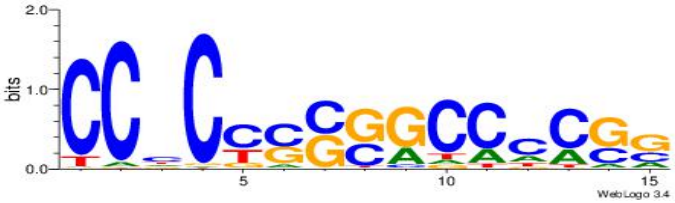
Best Matches for Motif ID 102 (Highest to Lowest)

Dataset #:	1
Motif ID:	112
Motif name:	C112
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif

Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.017662

Alignment:
CCBCYSSSGCCCCSS
SCMCCSSSVCCMSS-

Original motif Consensus sequence: CCBCYSSSGCCCCSS

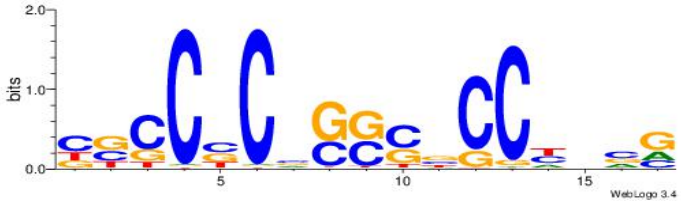


Reverse complement motif Consensus sequence: SSGGGGCSSSKGBGG

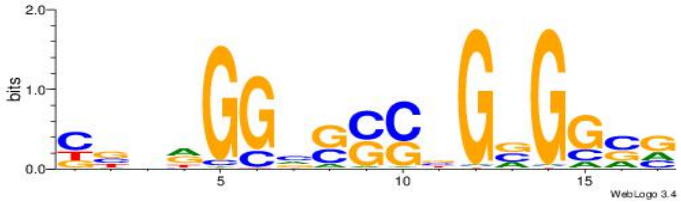
Dataset #:	1
Motif ID:	140
Motif name:	C140
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.0176967

Alignment:
BSCCBCVSSSBCCYHVG
--SCMCCSSSVCCMSS-

Original motif Consensus sequence: BSCCBCVSSSBCCYHVG



Reverse complement motif Consensus sequence: CVDMGGBSSSVGBGGSB

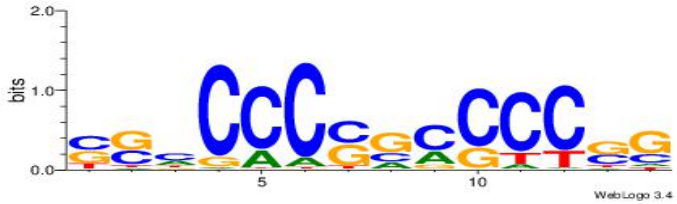


Dataset #:	1
Motif ID:	94
Motif name:	C094
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.0177805

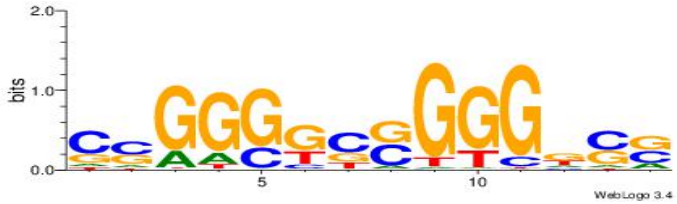
Alignment:

```
SSHCCCSGCCCCSG
SCMCCSSSVCCMSS
```

Original motif Consensus sequence: SSHCCCSGCCCCSG



Reverse complement motif Consensus sequence: CSGGGGCSGGGD

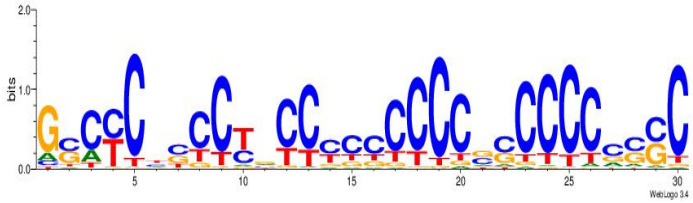


Dataset #:	1
Motif ID:	3
Motif name:	C003
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.0216318

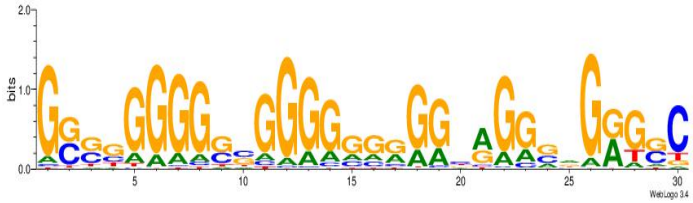
Alignment:

```
GSCYCHSCCYVCCYCCCCCCSSCCCCCSSC
---------------SCMCCSSSVCCMSS-
```

Original motif Consensus sequence:
GSCYCHSCCYVCCYCCCCCCSSCCCCCSSC



Reverse complement motif Consensus sequence:
GSSGGGGGSSGGGGGGKGGVMGGSHGKGSC

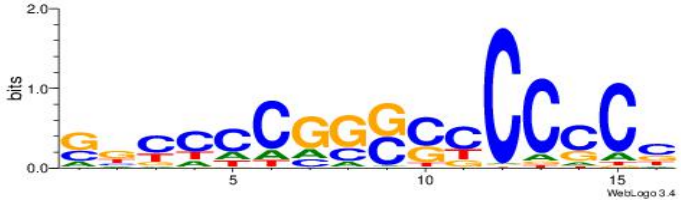


Dataset #:	1
Motif ID:	77
Motif name:	C077
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2

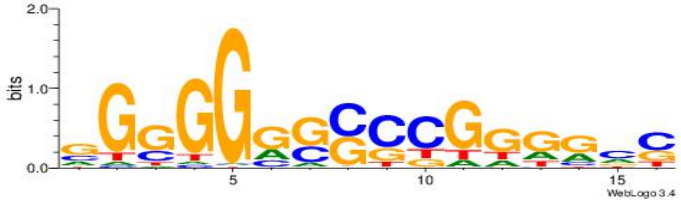
Number of overlap: 14
Similarity score: 0.0320147

Alignment:
SBCCCCGGSSCCCCCB
-SCMCCSSSVCCMSS-

Original motif Consensus sequence: SBCCCCGGSSCCCCCB

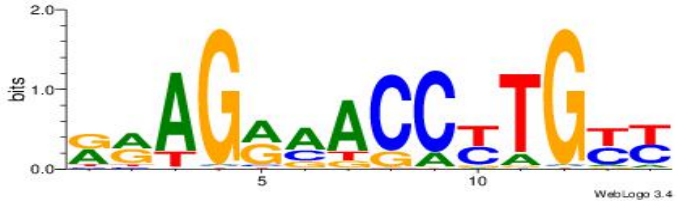


Reverse complement motif Consensus sequence: BGGGGGSSCCGGGGBS

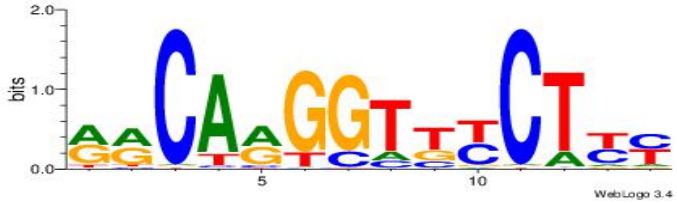


Dataset #: 1 Motif ID: 103 Motif name: C103

Original motif Consensus sequence: RRAGRAACCYTGYY



Reverse complement motif Consensus sequence: MMCAMGGTTKCTK



Best Matches for Motif ID 103 (Highest to Lowest)

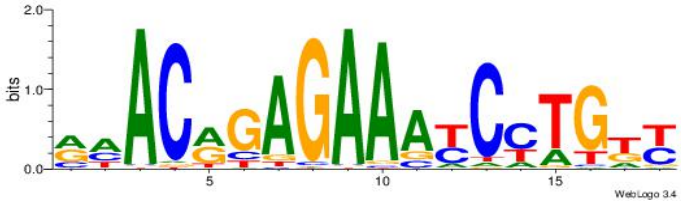
Dataset #: 1
Motif ID: 53
Motif name: C053
Matching format of first motif: Original Motif

Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	14
Similarity score:	0.00352554

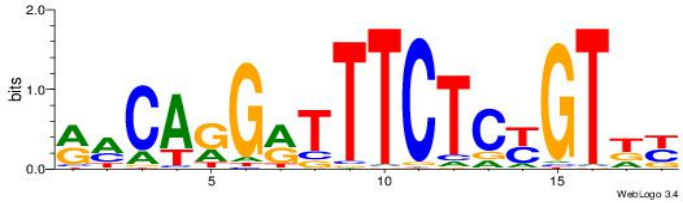
Alignment:

```
RMACRGAGAAAYCCTGKY
----RRAGRAACCYTGYY
```

Original motif Consensus sequence: RMACRGAGAAAYCCTGKY



Reverse complement motif Consensus sequence: MRCAGGMTTTCTCKGTYK

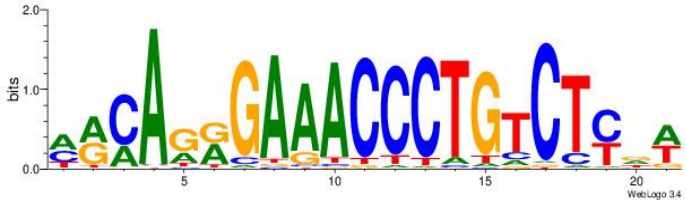


Dataset #:	1
Motif ID:	27
Motif name:	C027
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	14
Similarity score:	0.01171

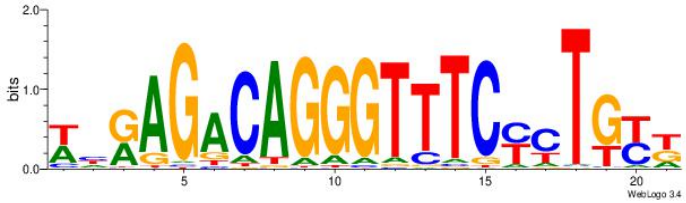
Alignment:

MRCAGRGAAACCCTGTCTYDW
---RRAGRAACCYTGYY----

Original motif Consensus sequence: MRCAGRGAAACCCTGTCTYDW



Reverse complement motif Consensus sequence: WHKAGACAGGGTTTCMCTGKY

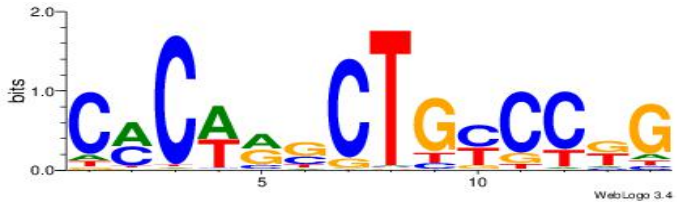


Dataset #:	1
Motif ID:	117
Motif name:	C117
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.0352722

Alignment:
CMCWRSCTGYCCKG
MMCAMGGTTKCTKM

Original motif Consensus sequence: CMCWRSCTGYCCKG

Reverse complement motif Consensus sequence: CYGGKCAGSKWG

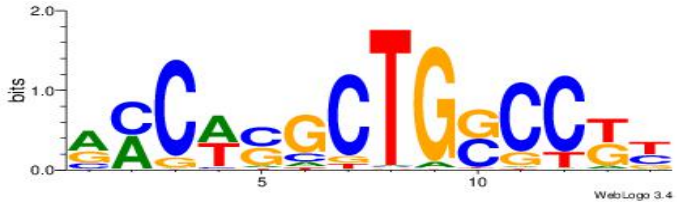


Dataset #:	1
Motif ID:	109
Motif name:	C109
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.0358256

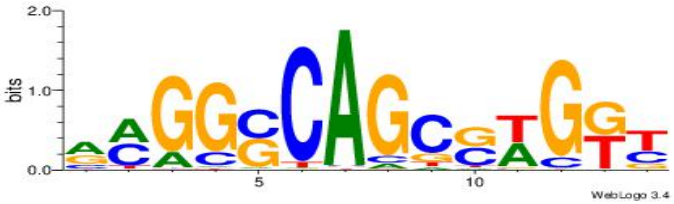
Alignment:

```
RMCWSGCTGSCCKY
MMCAMGGTTKCTKM
```

Original motif Consensus sequence: RMCWSGCTGSCCKY



Reverse complement motif Consensus sequence: MRGGSCAGCSWG



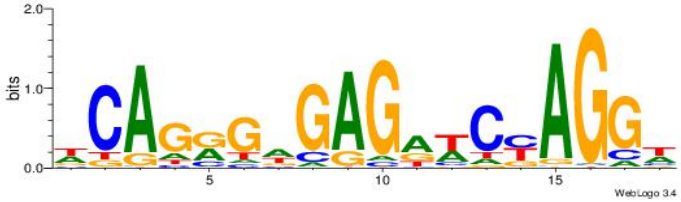
Dataset #:	1
Motif ID:	132

Motif name:	C132
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.0372435

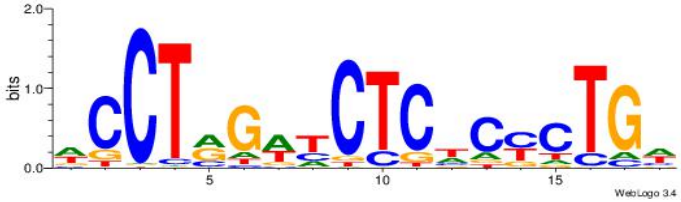
Alignment:

```
WCAGRGWGAGAWCYAGGW
----RRAGRAACCYTGYY
```

Original motif Consensus sequence: WCAGRGWGAGAWCYAGGW

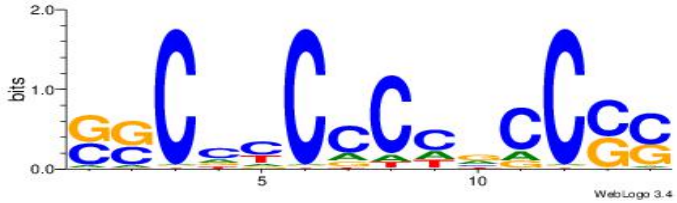


Reverse complement motif Consensus sequence: WCCTKGWTCTCWCMCTGW

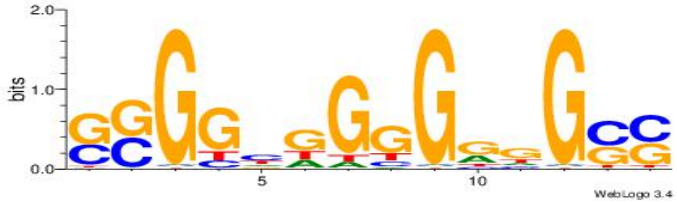


Dataset #: 1 Motif ID: 104 Motif name: C104

Original motif Consensus sequence: SSCCYCCCCDCCSS



Reverse complement motif Consensus sequence: SSGGHGGGGKGG

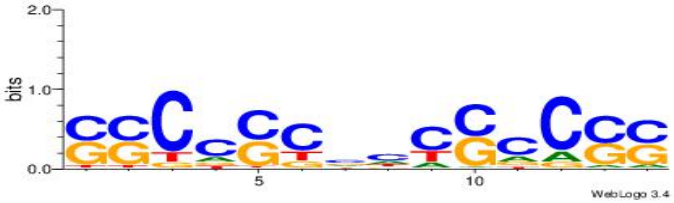


Best Matches for Motif ID 104 (Highest to Lowest)

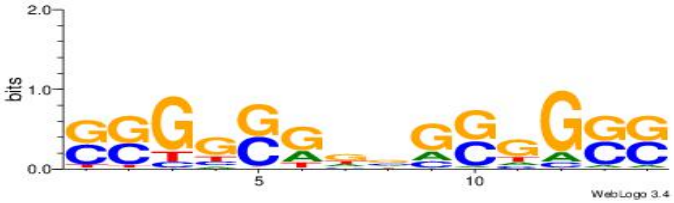
Dataset #:	1
Motif ID:	23
Motif name:	C023
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.00165547

Alignment:
SSGGSGDBGSGGSS
SSGGHGGGGKGGSS

Original motif Consensus sequence: SSCCSCBHCSCCSS



Reverse complement motif Consensus sequence: SSGGSGDBGSGGS

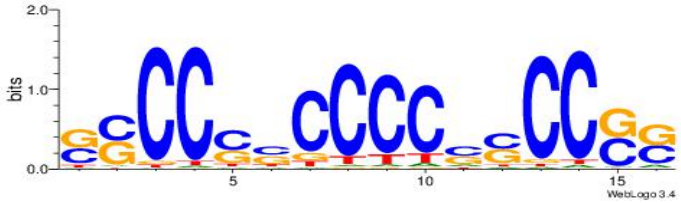


Dataset #:	1
Motif ID:	8
Motif name:	C008
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif

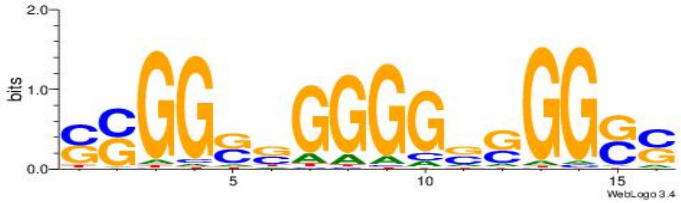
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.00956764

Alignment:
SSCCSSCCCCSSCCSS
-SSCCYCCCCDCCSS-

Original motif Consensus sequence: SSCCSSCCCCSSCCSS



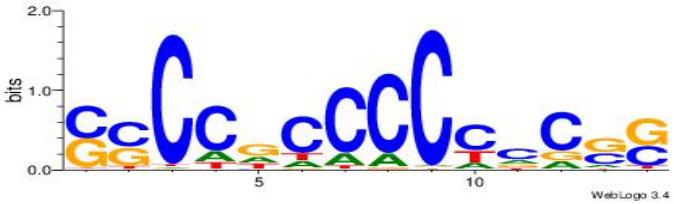
Reverse complement motif Consensus sequence: SSGGSSGGGGSSGGSS



Dataset #:	1
Motif ID:	54
Motif name:	C054
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.0123202

Alignment:
SSGGGGGGGHGGSS
SSGGHGGGGKGGSS

Original motif Consensus sequence: SSCCDCCCCCCCSS



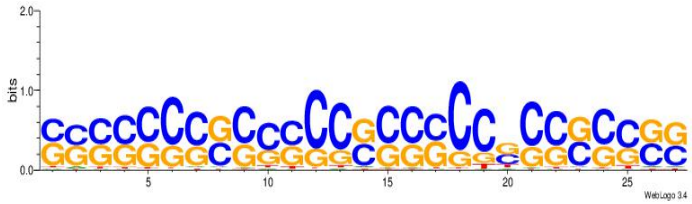
Reverse complement motif Consensus sequence: SSGGGGGGGHGG

Dataset #:	1
Motif ID:	4
Motif name:	C004
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	14
Similarity score:	0.0160908

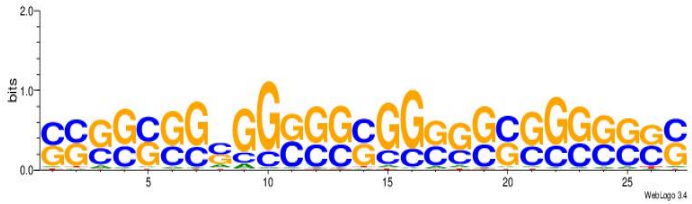
Alignment:

```
SSSSSSGSGGSSSSGGSSSSSGSSSSS
---SSGGHGGGGKGGSS----------
```

Original motif Consensus sequence: SSSSSCSSSSSCCSSSSCCSCSSSSSS



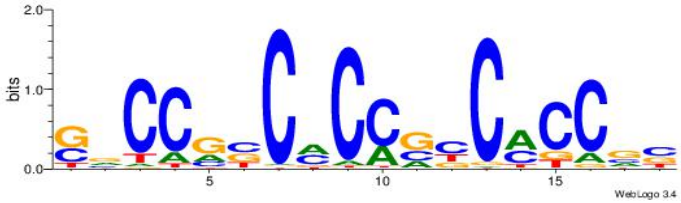
Reverse complement motif Consensus sequence: SSSSSSGSGGSSSSGGSSSSSGSSSSS



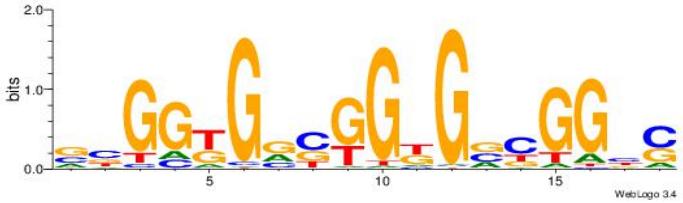
Dataset #:	1
Motif ID:	37
Motif name:	C037
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	14
Similarity score:	0.0188565

Alignment:
SVCCGBCMCCSYCMCCVB
-SSCCYCCCCDCCSS---

Original motif Consensus sequence: SVCCGBCMCCSYCMCCVB



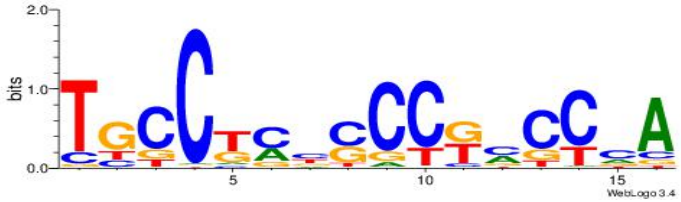
Reverse complement motif Consensus sequence: BVGGYGKSGGYGBCGGVS

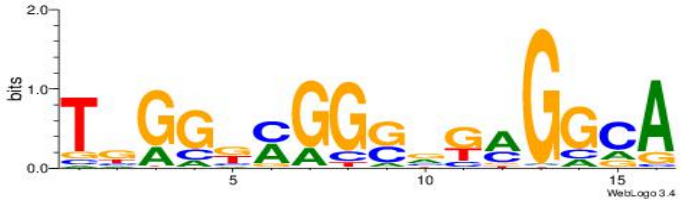


Dataset #: 1 Motif ID: 105 Motif name: C105

Original motif Consensus sequence: TGCCKMBSCCKMCCVA

Reverse complement motif Consensus sequence: TVGGRYGGSBRRGGCA





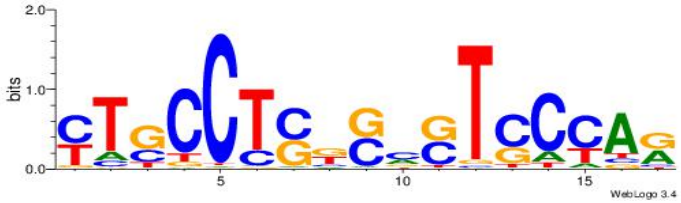
Best Matches for Motif ID 105 (Highest to Lowest)

Dataset #:	1
Motif ID:	101
Motif name:	C101
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	16
Similarity score:	0.0216765

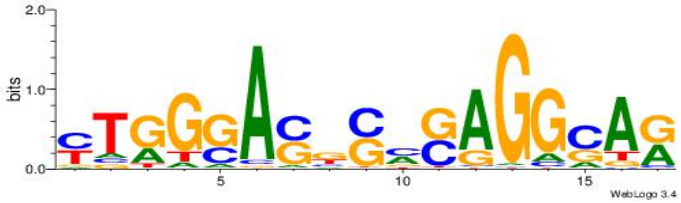
Alignment:

```
YTSCCTSKSVSTCCCAR
-TGCCKMBSCCKMCCVA
```

Original motif Consensus sequence: YTSCCTSKSVSTCCCAR



Reverse complement motif Consensus sequence: MTGGGASVSYSAGGSAK

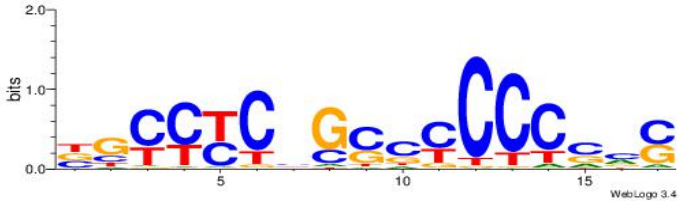


Dataset #:	1
Motif ID:	22
Motif name:	C022
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.0274458

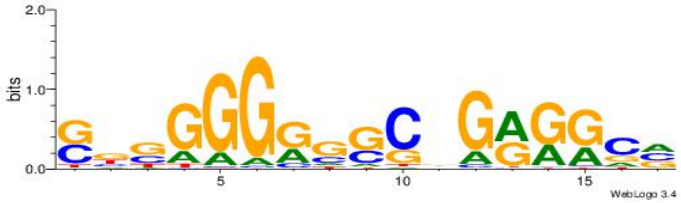
Alignment:

```
BGCCYCBGSCYCCCSVS
TGCCKMBSCCKMCCVA-
```

Original motif Consensus sequence: BGCCYCBGSCYCCCSVS



Reverse complement motif Consensus sequence: SVSGGGKGSCBGMGGCV

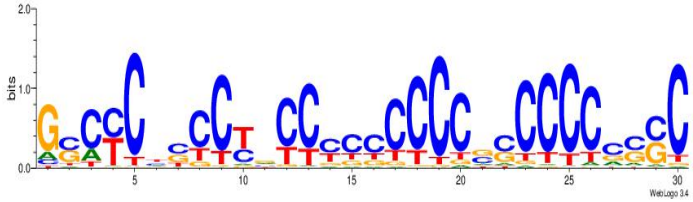


Dataset #:	1
Motif ID:	3
Motif name:	C003
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	10

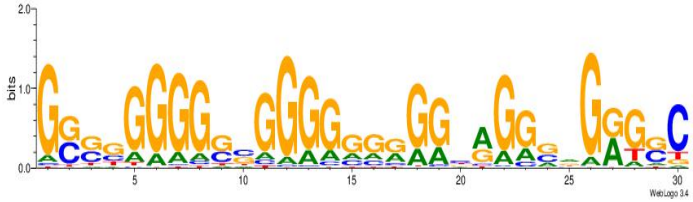
Number of overlap: 16
Similarity score: 0.029655

Alignment:
GSSGGGGGSSGGGGGGKGGVMGGSHGKGSC
-----TVGGRYGGSBRRGGCA---------

Original motif Consensus sequence:
GSCYCHSCCYVCCYCCCCCCSSCCCCCSSC



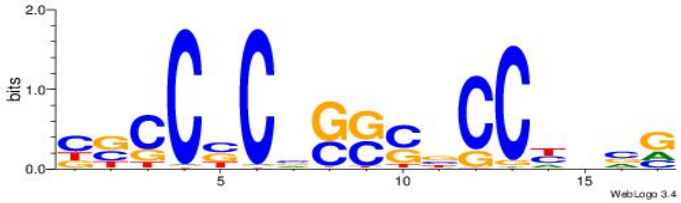
Reverse complement motif Consensus sequence:
GSSGGGGGSSGGGGGGKGGVMGGSHGKGSC



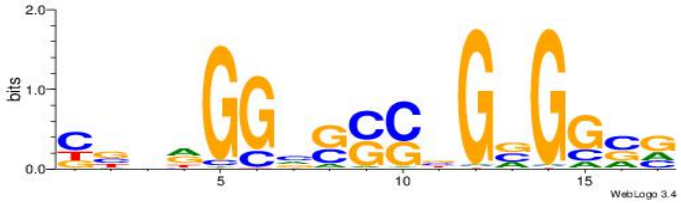
Dataset #: 1
Motif ID: 140
Motif name: C140
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 16
Similarity score: 0.0298105

Alignment:
BSCCBCVSSSBCCYHVG
TGCCKMBSCCKMCCVA-

Original motif Consensus sequence: BSCCBCVSSSBCCYHVG



Reverse complement motif Consensus sequence: CVDMGGBSSSVGBGGSB

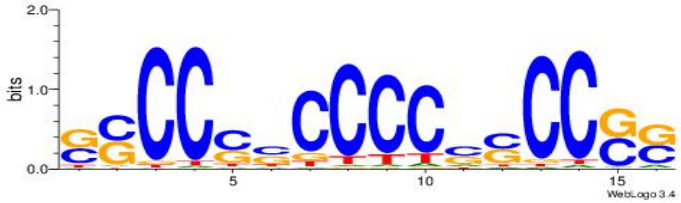


Dataset #:	1
Motif ID:	8
Motif name:	C008
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.0383734

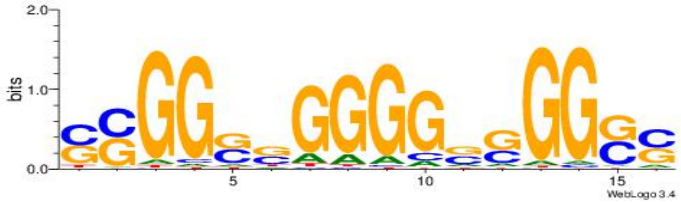
Alignment:

```
SSCCSSCCCCSSCCSS
TGCCKMBSCCKMCCVA
```

Original motif Consensus sequence: SSCCSSCCCCSSCCSS



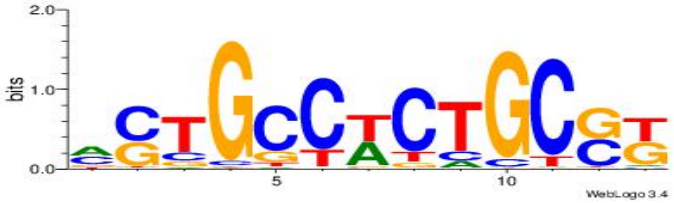
Reverse complement motif Consensus sequence: SSGGSSGGGGSSGGSS



Dataset #: 1 Motif ID: 106 Motif name: C106

Original motif Consensus sequence: MSGCAGWGGCASK

Reverse complement motif Consensus sequence: RSTGCCWCTGCSY



Best Matches for Motif ID 106 (Highest to Lowest)

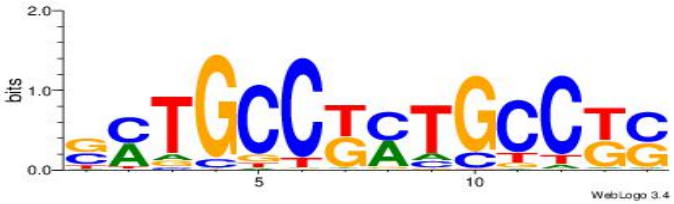
Dataset #:	1
Motif ID:	60
Motif name:	C060
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	13
Similarity score:	0.00980046

Alignment:

```
SYTGCCYYTGCCYS
RSTGCCWCTGCSY-
```

Original motif Consensus sequence: SMGGCAKMGGCAKS

Reverse complement motif Consensus sequence: SYTGCCYYTGCCYS

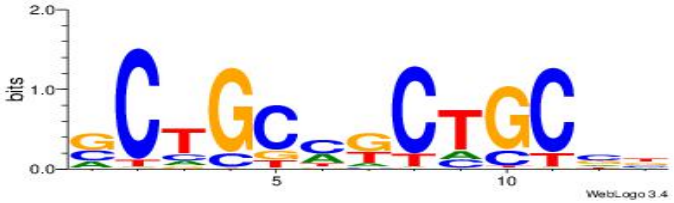


Dataset #:	1
Motif ID:	84
Motif name:	C084
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.0130594

Alignment:

```
VVGCAGYRGCAGS
MSGCAGWGGCASK
```

Original motif Consensus sequence: SCTGCMKCTGCVB



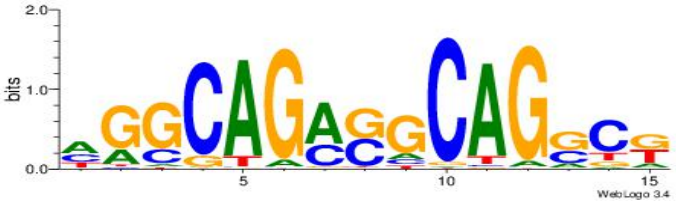
Reverse complement motif Consensus sequence: VVGCAGYRGCAGS

Dataset #:	1
Motif ID:	75
Motif name:	C075
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	3

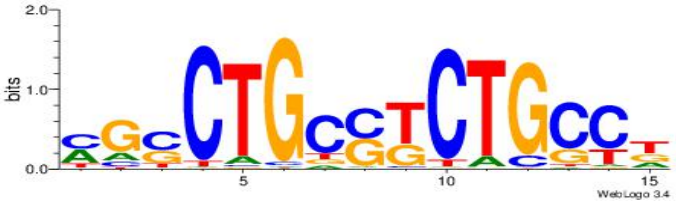
Number of overlap: 13
Similarity score: 0.0158953

Alignment:
YGSCTGCSYCTGCCY
--RSTGCCWCTGCSY

Original motif Consensus sequence: MGGCAGMSGCAGSCK



Reverse complement motif Consensus sequence: YGSCTGCSYCTGC

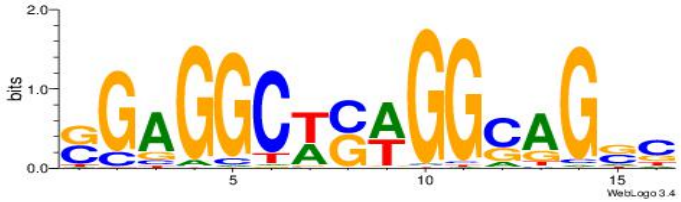


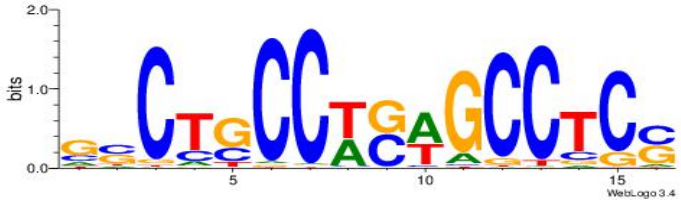
Dataset #: 1
Motif ID: 48
Motif name: C048
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 3
Number of overlap: 13
Similarity score: 0.0219653

Alignment:
GSCTGCCWSWGCCTCS
-RSTGCCWCTGCSY--

Original motif Consensus sequence: SGAGGCWSWGGCAGSC

Reverse complement motif Consensus sequence: GSCTGCCWSWGCCTCS



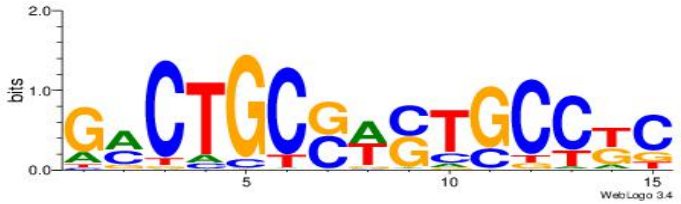


Dataset #:	1
Motif ID:	118
Motif name:	C118
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	13
Similarity score:	0.0221158

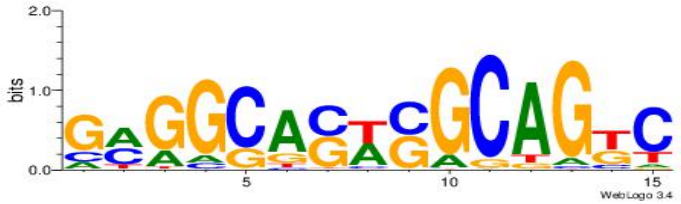
Alignment:

```
GMCTGCSWSTGCCKC
-RSTGCCWCTGCSY-
```

Original motif Consensus sequence: GMCTGCSWSTGCCKC

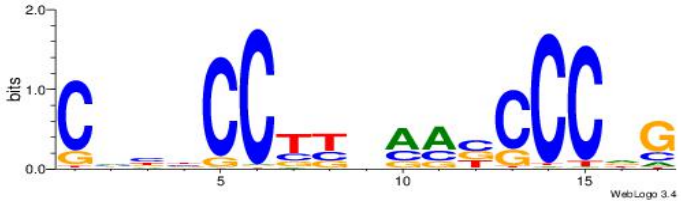


Reverse complement motif Consensus sequence: GRGGCASWSGCAGYC

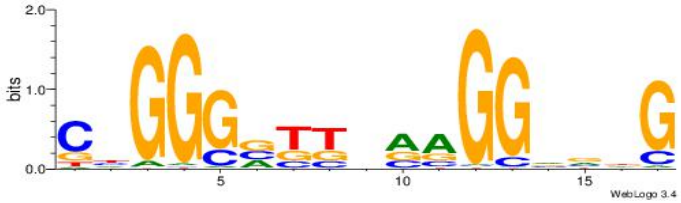


Dataset #: 1 Motif ID: 107 Motif name: C107

Original motif Consensus sequence: CHBBCCTYBAABCCCDG



Reverse complement motif Consensus sequence: CDGGGBTTVMAGGVBHG



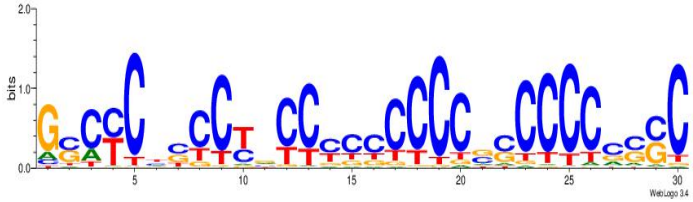
Best Matches for Motif ID 107 (Highest to Lowest)

Dataset #:	1
Motif ID:	3
Motif name:	C003
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	10
Number of overlap:	17
Similarity score:	0.0446524

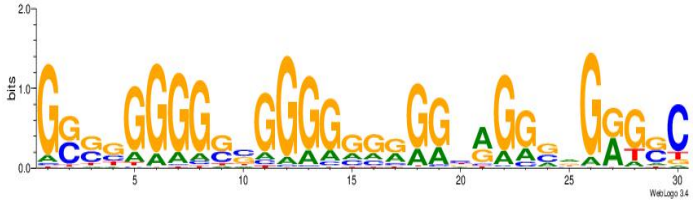
Alignment:

```
GSCYCHSCCYVCCYCCCCCCSSCCCCCSSC
----CHBBCCTYBAABCCCDG---------
```

Original motif Consensus sequence: GSCYCHSCCYVCCYCCCCCCSSCCCCCSSC



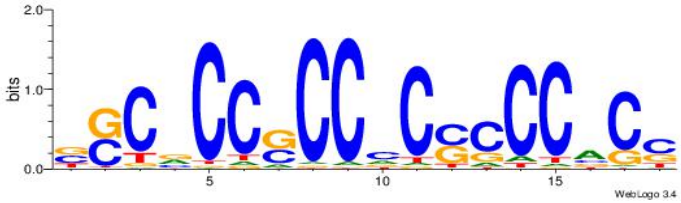
Reverse complement motif Consensus sequence: GSSGGGGGSSGGGGGGKGGVMGGSHGKGSC



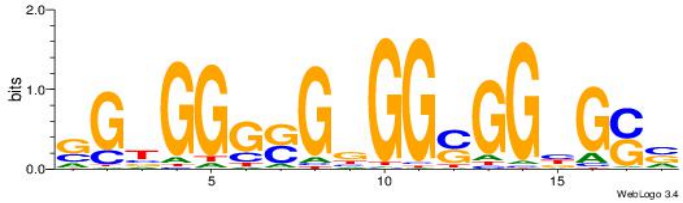
Dataset #:	1
Motif ID:	20
Motif name:	C020
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.0507615

Alignment:
SGTGGGSGVGGSGGVGSB
-CDGGGBTTVMAGGVBHG

Original motif Consensus sequence: BSCVCCSCCVCSCCCACS



Reverse complement motif Consensus sequence: SGTGGGSGVGGSGGVGSB

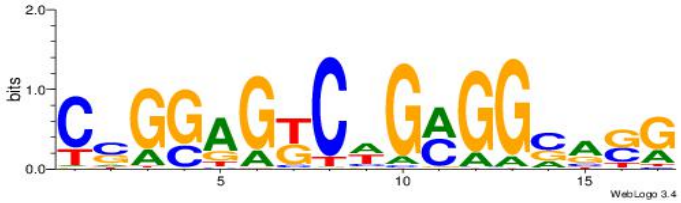


Dataset #:	1
Motif ID:	86
Motif name:	C086
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward

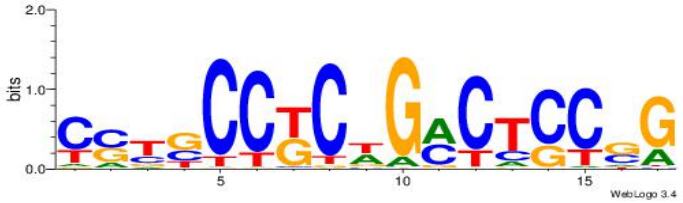
Position number: 1
Number of overlap: 17
Similarity score: 0.0514928

Alignment:
CSTSCCYCWGRCTCCSG
CHBBCCTYBAABCCCDG

Original motif Consensus sequence: CSGGAGKCWGMGGSASG



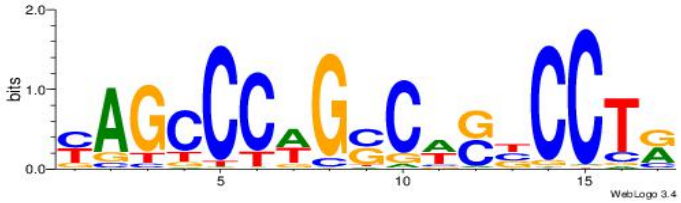
Reverse complement motif Consensus sequence: CSTSCCYCWGRCTCCSG



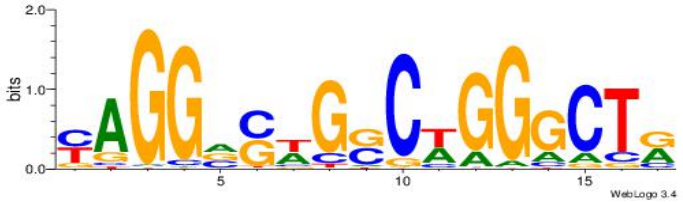
Dataset #: 1
Motif ID: 122
Motif name: C122
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 17
Similarity score: 0.0541557

Alignment:
YAGCCCWGSCWSBCCTR
CHBBCCTYBAABCCCDG

Original motif Consensus sequence: YAGCCCWGSCWSBCCTR



Reverse complement motif Consensus sequence: MAGGVSWGSCWGGGCTK

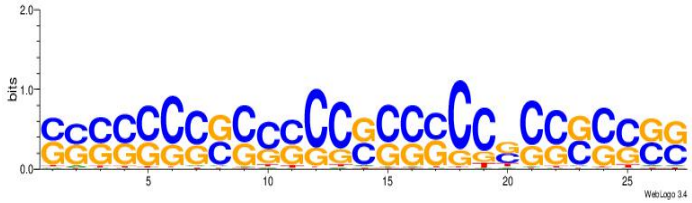


Dataset #:	1
Motif ID:	4
Motif name:	C004
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	7
Number of overlap:	17
Similarity score:	0.0584694

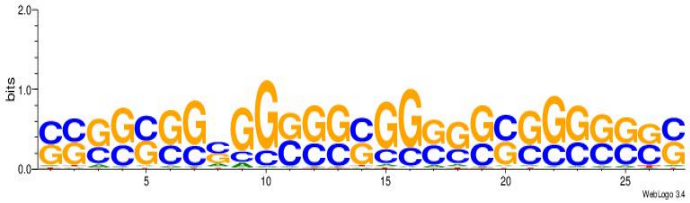
Alignment:

```
SSSSSCSSSSSCCSSSSCCSCSSSSSS
----CHBBCCTYBAABCCCDG------
```

Original motif Consensus sequence: SSSSSCSSSSSCCSSSSCCSCSSSSSS

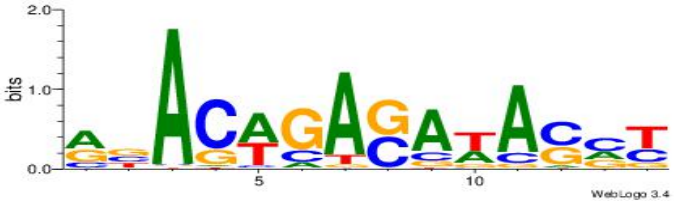


Reverse complement motif Consensus sequence: SSSSSSGSGGSSSSGGSSSSSGSSSSS

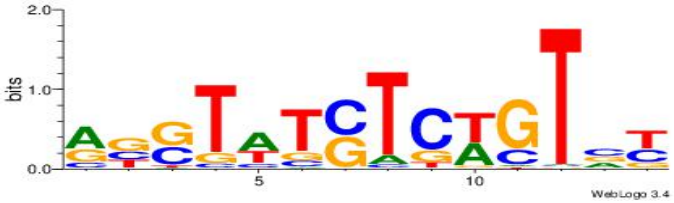


Dataset #: 1 **Motif ID: 108** **Motif name: C108**

Original motif Consensus sequence: RBACWGASAWASVY



Reverse complement motif Consensus sequence: MVSTWTSTCWGTB



Best Matches for Motif ID 108 (Highest to Lowest)

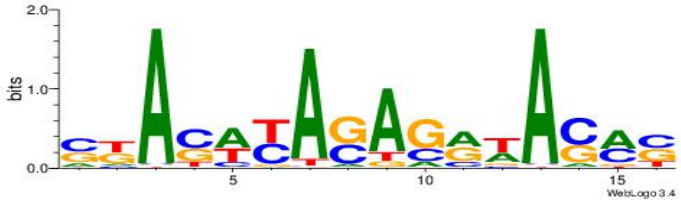
Dataset #:	1
Motif ID:	125
Motif name:	C125
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	3.79502e-05

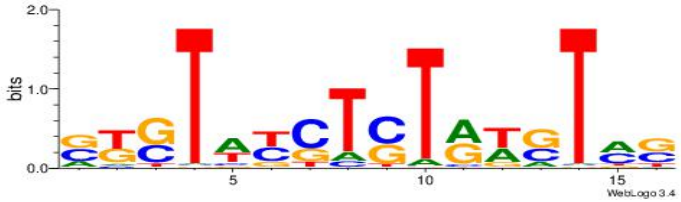
Alignment:

```
SKASWYASAGRWASMS
--RBACWGASAWASVY
```

Original motif Consensus sequence: SKASWYASAGRWASMS

Reverse complement motif Consensus sequence: SYSTWKCTSTMWSTRS



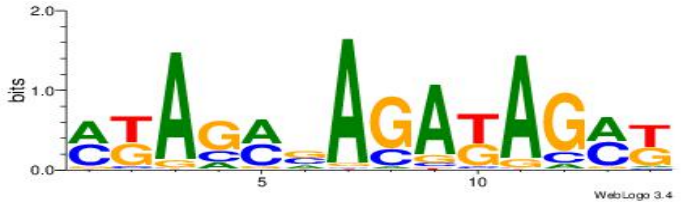


Dataset #:	1
Motif ID:	21
Motif name:	C021
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.00124361

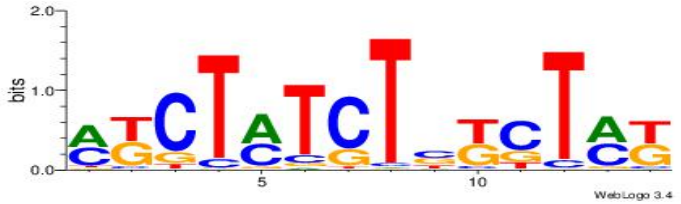
Alignment:

```
MKAGMVAGAKAGMK
RBACWGASAWASVY
```

Original motif Consensus sequence: MKAGMVAGAKAGMK



Reverse complement motif Consensus sequence: RYCTRTCTVYCTRY



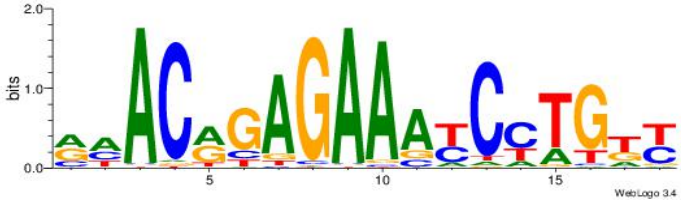
Dataset #:	1
Motif ID:	53

Motif name:	C053
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	5
Number of overlap:	14
Similarity score:	0.00887812

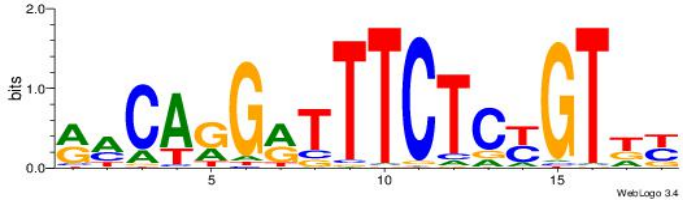
Alignment:

```
RMACRGAGAAAYCCTGKY
RBACWGASAWASVY----
```

Original motif Consensus sequence: RMACRGAGAAAYCCTGKY



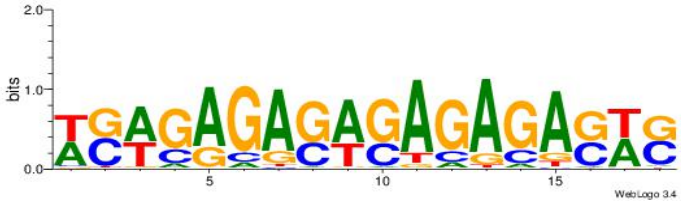
Reverse complement motif Consensus sequence: MRCAGGMTTTCTCKGTYK



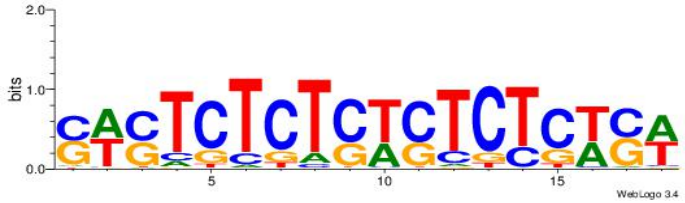
Dataset #:	1
Motif ID:	17
Motif name:	C017
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	14
Similarity score:	0.0104617

Alignment:
WSWGAGASWSAGAGASWS
----RBACWGASAWASVY

Original motif Consensus sequence: WSWGAGASWSAGAGASWS



Reverse complement motif Consensus sequence: SWSTCTCTSWSTCTCWSW

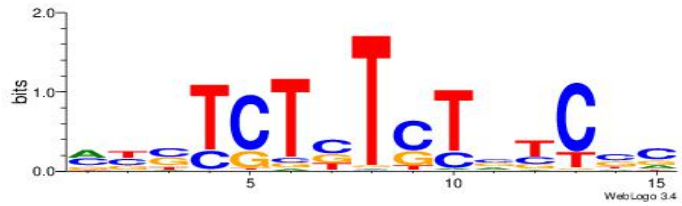


Dataset #:	1
Motif ID:	70
Motif name:	C070
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.0119575

Alignment:
GVGABAGAVAGASVK
-RBACWGASAWASVY

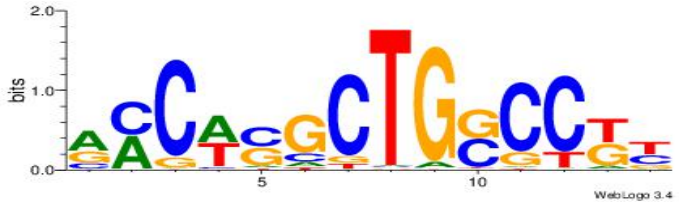
Original motif Consensus sequence: GVGABAGAVAGASVK

Reverse complement motif Consensus sequence: RBSTCTVTCTBTCV



Dataset #: 1 Motif ID: 109 Motif name: C109

Original motif Consensus sequence: RMCWSGCTGSCCKY



Reverse complement motif Consensus sequence: MRGGSCAGCSWG

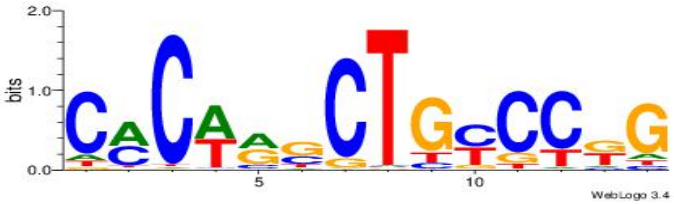
Best Matches for Motif ID 109 (Highest to Lowest)

Dataset #:	1
Motif ID:	117
Motif name:	C117
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.0131734

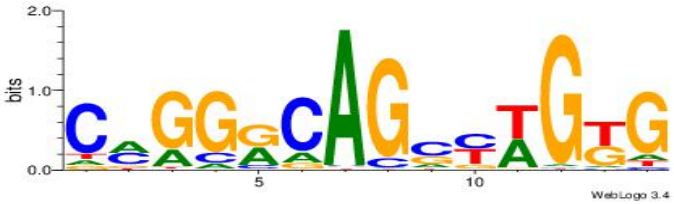
Alignment:

```
CMCWRSCTGYCCKG
RMCWSGCTGSCCKY
```

Original motif Consensus sequence: CMCWRSCTGYCCKG



Reverse complement motif Consensus sequence: CYGGKCAGSKWGY

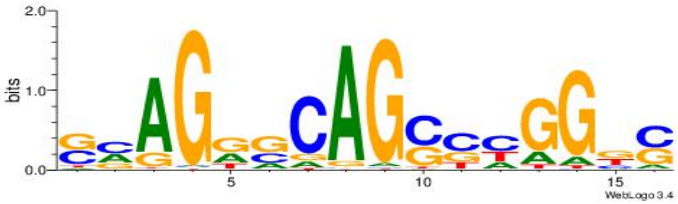


Dataset #:	1
Motif ID:	39
Motif name:	C039
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.0182618

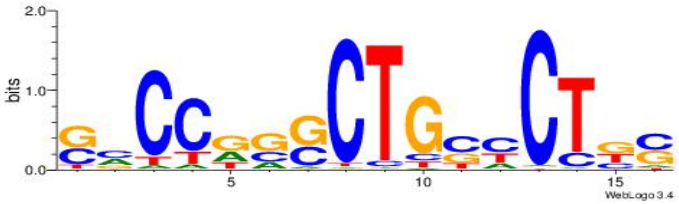
Alignment:

```
SBCCKSSCTGSMCTRS
-RMCWSGCTGSCCKY-
```

Original motif Consensus sequence: SMAGRSCAGSSYGGBS



Reverse complement motif Consensus sequence: SBCCKSSCTGSMCTRS

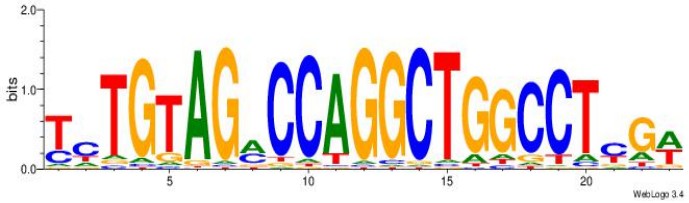


Dataset #:	1
Motif ID:	5
Motif name:	C005
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	8
Number of overlap:	14
Similarity score:	0.0183336

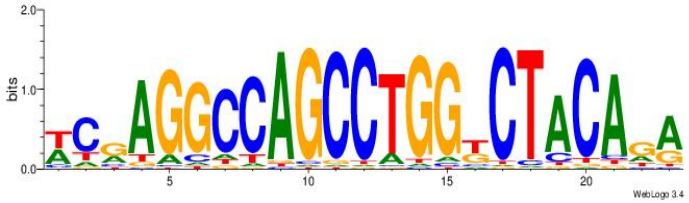
Alignment:

```
TCTGTAGMCCAGGCTGGCCTYGW
-------RMCWSGCTGSCCKY--
```

Original motif Consensus sequence: TCTGTAGMCCAGGCTGGCCTYGW



Reverse complement motif Consensus sequence: WCKAGGCCAGCCTGGYCTACAGA

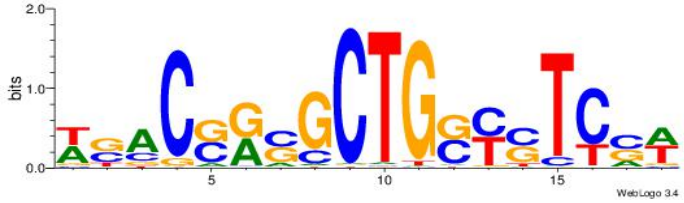


Dataset #:	1
Motif ID:	124
Motif name:	C124
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3

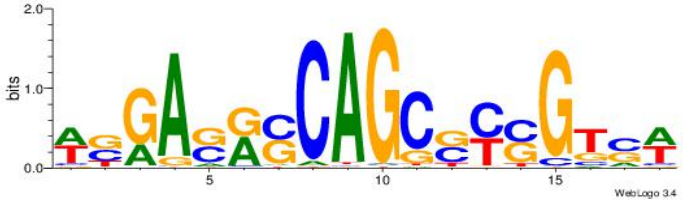
Number of overlap: 14
Similarity score: 0.0260518

Alignment:
WSACSRSGCTGSYSTCSW
--RMCWSGCTGSCCKY--

Original motif Consensus sequence: WSACSRSGCTGSYSTCSW



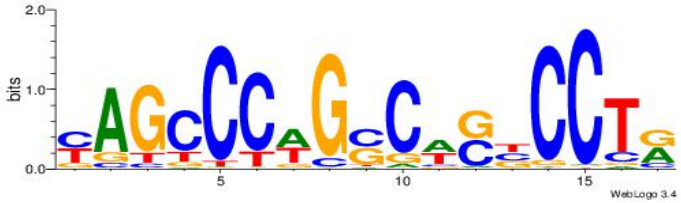
Reverse complement motif Consensus sequence: WSGASKSCAGCSMSGTSW



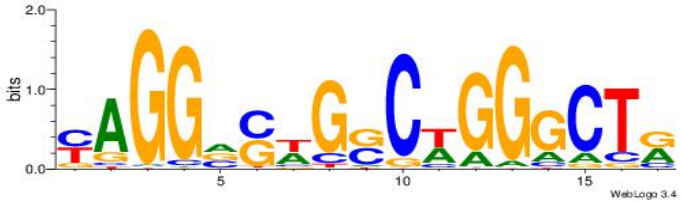
Dataset #: 1
Motif ID: 122
Motif name: C122
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 4
Number of overlap: 14
Similarity score: 0.0339955

Alignment:
MAGGVSWGSCWGGGCTK
MRGGSCAGCSWGRK---

Original motif Consensus sequence: YAGCCCWGSCWSBCCTR

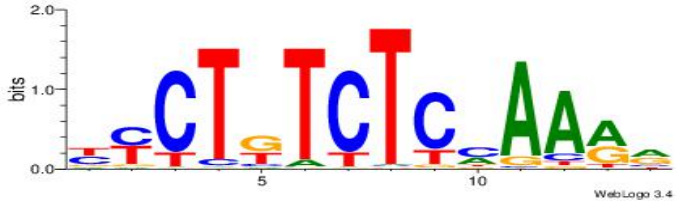


Reverse complement motif Consensus sequence: MAGGVSWGSCWGGGCTK



Dataset #: 1 Motif ID: 110 Motif name: C110

Original motif Consensus sequence: YYCTKTCTCMAARR



Reverse complement motif Consensus sequence: KKTTRGAGAYAGK

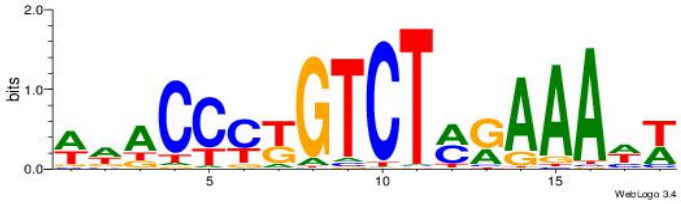
Best Matches for Motif ID 110 (Highest to Lowest)

Dataset #:	1
Motif ID:	35
Motif name:	C035
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.0126083

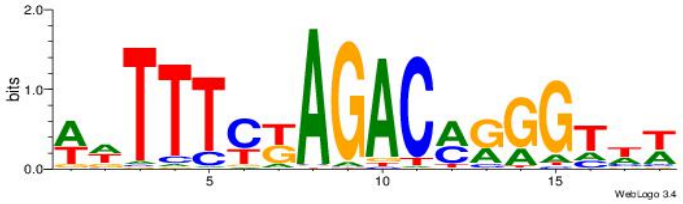
Alignment:

WWACCYKGTCTMRAAAWW
---YYCTKTCTCMAARR-

Original motif Consensus sequence: WWACCYKGTCTMRAAAWW



Reverse complement motif Consensus sequence: WWTTTMYAGACRKGGTWW

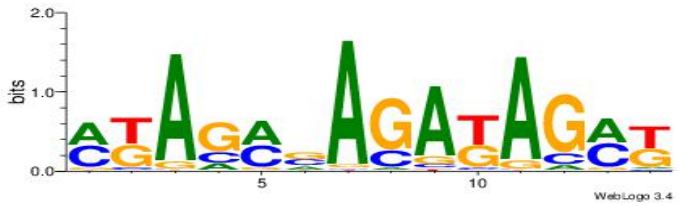


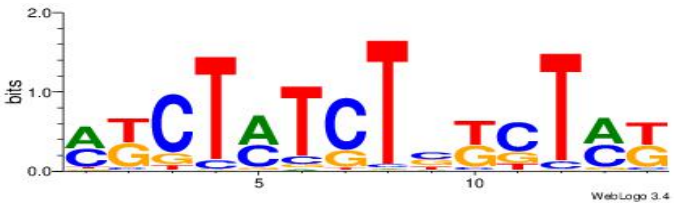
Dataset #:	1
Motif ID:	21
Motif name:	C021
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.036224

Alignment:
MKAGMVAGAKAGMK
KKTTRGAGAYAGKM

Original motif Consensus sequence: MKAGMVAGAKAGMK

Reverse complement motif Consensus sequence: RYCTRTCTVYCTRY



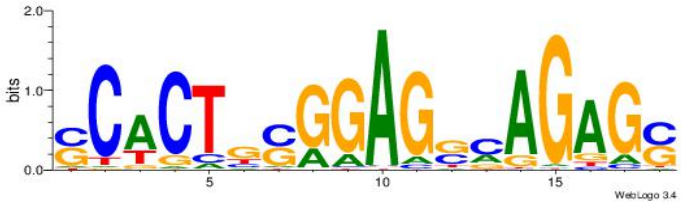


Dataset #:	1
Motif ID:	34
Motif name:	C034
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	14
Similarity score:	0.0376014

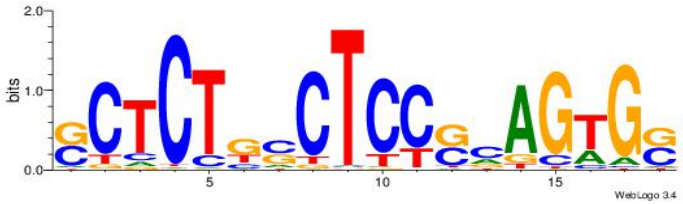
Alignment:

```
SCACTGSGGAGSMAGAGS
-KKTTRGAGAYAGKM---
```

Original motif Consensus sequence: SCACTGSGGAGSMAGAGS



Reverse complement motif Consensus sequence: SCTCTRSCTCCSCAGTGS



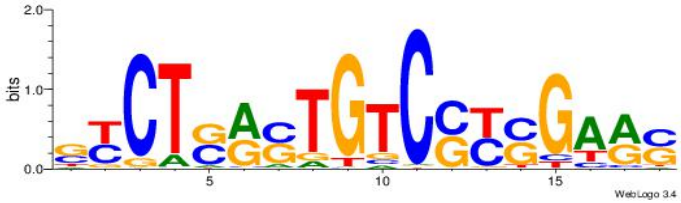
Dataset #: 1

Motif ID:	128
Motif name:	C128
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	5
Number of overlap:	14
Similarity score:	0.0439701

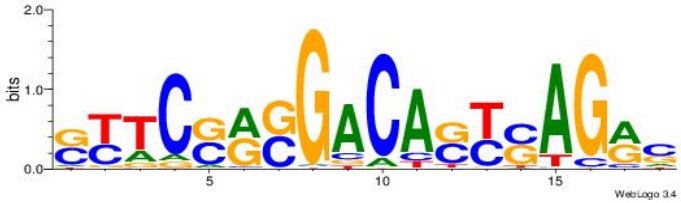
Alignment:

```
SKTCSMSGACASKSAGMS
KKTTRGAGAYAGKM----
```

Original motif Consensus sequence: SYCTSRSTGTCSYSGARS



Reverse complement motif Consensus sequence: SKTCSMSGACASKSAGMS

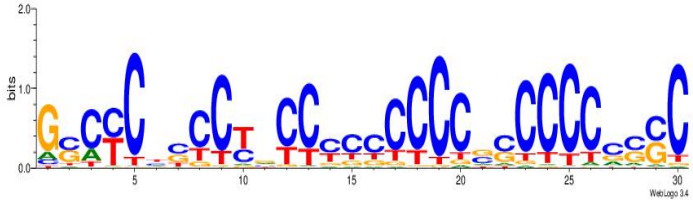


Dataset #:	1
Motif ID:	3
Motif name:	C003
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	15
Number of overlap:	14

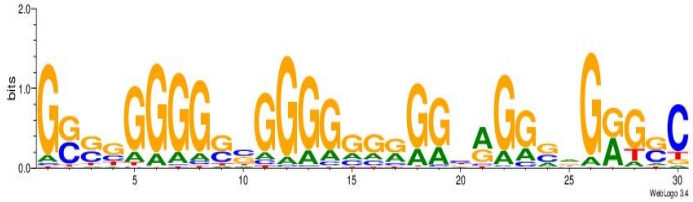
Similarity score: 0.0457893

Alignment:
GSSGGGGGSSGGGGGGKGGVMGGSHGKGSC
----------KKTTRGAGAYAGKM--

Original motif Consensus sequence:
GSCYCHSCCYVCCYCCCCCCSSCCCCCSSC

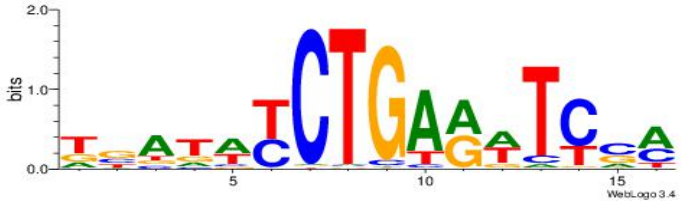


Reverse complement motif Consensus sequence:
GSSGGGGGSSGGGGGGKGGVMGGSHGKGSC

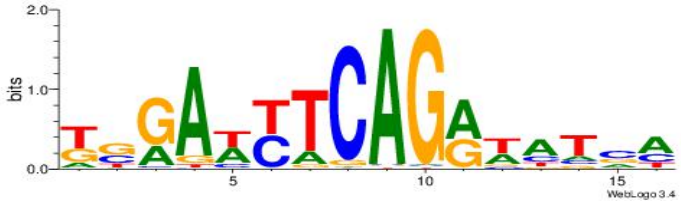


Dataset #: 1 Motif ID: 111 Motif name: C111

Original motif Consensus sequence: TBATWYCTGARWTCSM



Reverse complement motif Consensus sequence:
YSGAWKTCAGMWATBA



Best Matches for Motif ID 111 (Highest to Lowest)

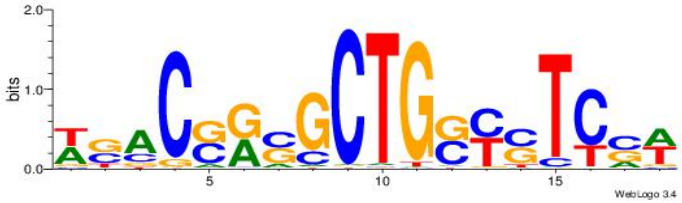
Dataset #:	1
Motif ID:	124
Motif name:	C124
Matching format of first motif:	Reverse Complement

Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.0317368

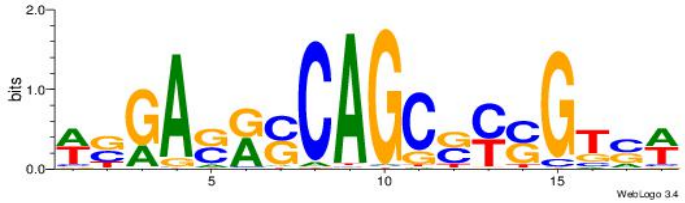
Alignment:

```
WSGASKSCAGCSMSGTSW
YSGAWKTCAGMWATBA--
```

Original motif Consensus sequence: WSACSRSGCTGSYSTCSW



Reverse complement motif Consensus sequence: WSGASKSCAGCSMSGTSW

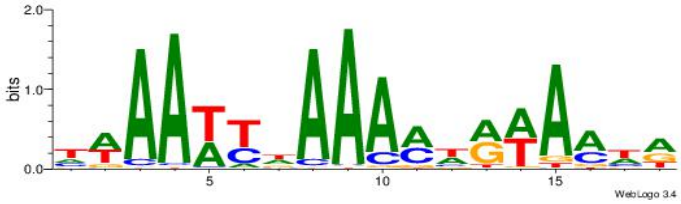


Dataset #:	1
Motif ID:	32
Motif name:	C032
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	16
Similarity score:	0.0343652

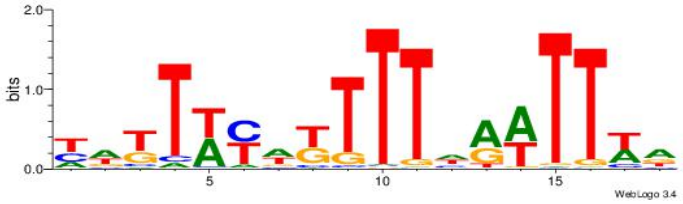
Alignment:

HWAAWYDAAAMWRWAMWR
--YSGAWKTCAGMWATBA

Original motif Consensus sequence: HWAAWYDAAAMWRWAMWR



Reverse complement motif Consensus sequence: KWYTWKWYTTTDMWTTWH

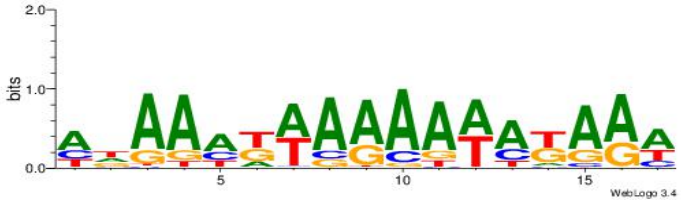


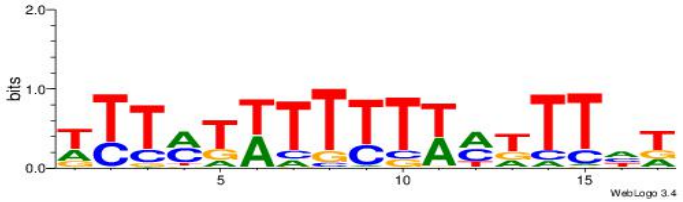
Dataset #:	1
Motif ID:	79
Motif name:	C079
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	16
Similarity score:	0.0379285

Alignment:
ADAAAKWAAAAWAKARW
-YSGAWKTCAGMWATBA

Original motif Consensus sequence: ADAAAKWAAAAWAKARW

Reverse complement motif Consensus sequence: WKTRTWTTTTWRTTTDT



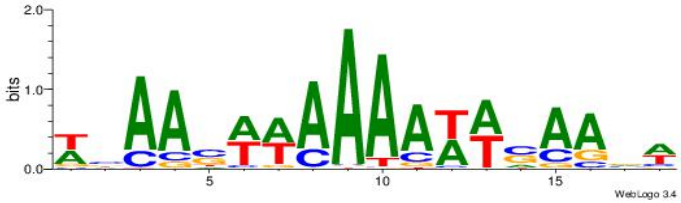


Dataset #:	1
Motif ID:	97
Motif name:	C097
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	16
Similarity score:	0.0433488

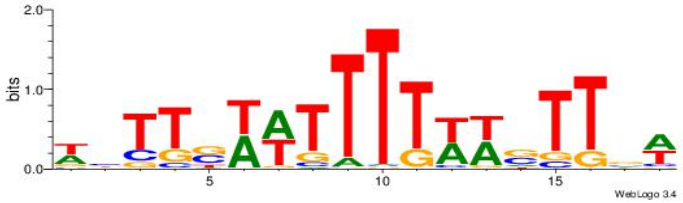
Alignment:

```
WBAASWWAAAAWWSAAVW
--YSGAWKTCAGMWATBA
```

Original motif Consensus sequence: WBAASWWAAAAWWSAAVW



Reverse complement motif Consensus sequence: WVTTSWWTTTTWWSTTBW



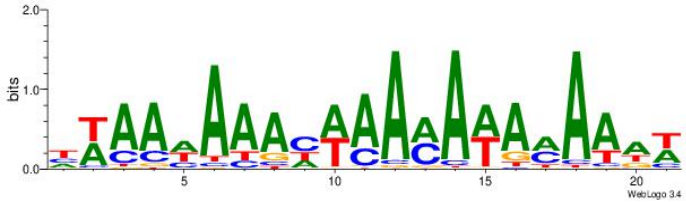
Dataset #: 1

Motif ID:	16
Motif name:	C016
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	16
Similarity score:	0.0454989

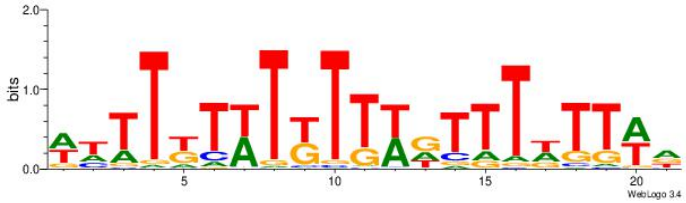
Alignment:

```
HWAAWAAAHWAAMAWAMAAWW
--YSGAWKTCAGMWATBA---
```

Original motif Consensus sequence: HWAAWAAAHWAAMAWAMAAWW

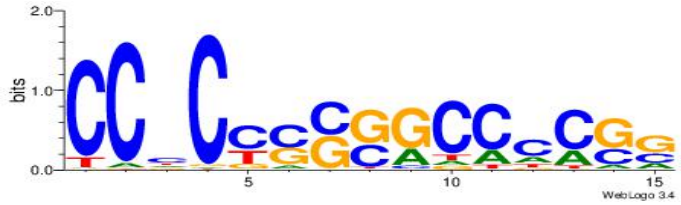


Reverse complement motif Consensus sequence: WWTTYTWTYTTWDTTTWTTWH

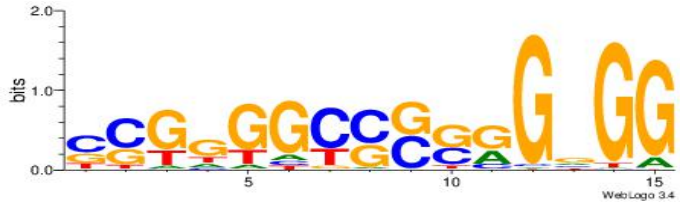


Dataset #: 1 Motif ID: 112 Motif name: C112

Original motif Consensus sequence: CCBCYSSSGCCCCSS



Reverse complement motif Consensus sequence: SSGGGGCSSSKGBGG



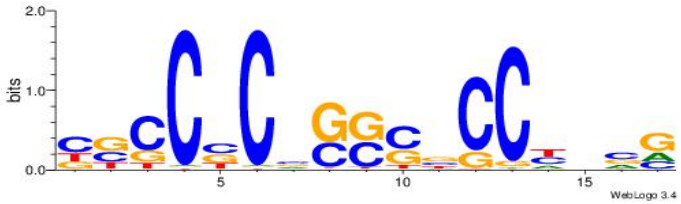
Best Matches for Motif ID 112 (Highest to Lowest)

Dataset #:	1
Motif ID:	140
Motif name:	C140
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	15
Similarity score:	0.0255213

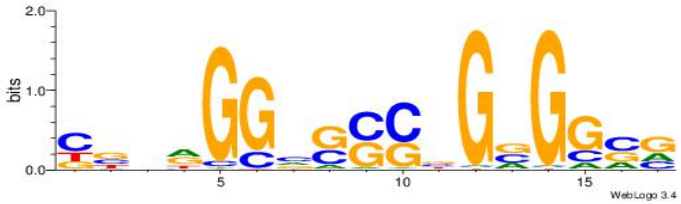
Alignment:

```
BSCCBCVSSSBCCYHVG
--CCBCYSSSGCCCCSS
```

Original motif Consensus sequence: BSCCBCVSSSBCCYHVG



Reverse complement motif Consensus sequence: CVDMGGBSSSVGBGGSB

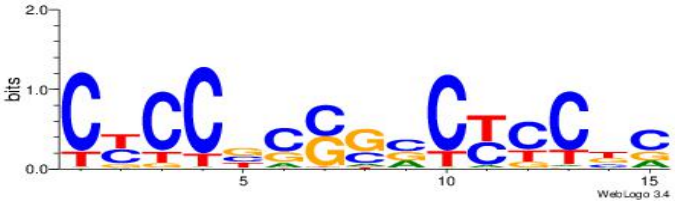


Dataset #:	1
Motif ID:	58
Motif name:	C058
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif

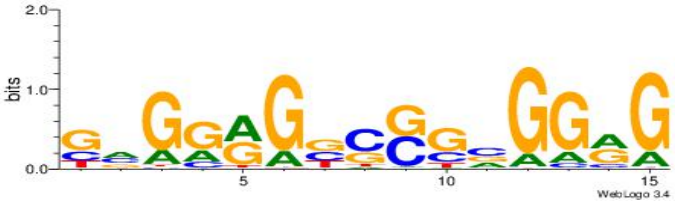
Direction:	Backward
Position number:	1
Number of overlap:	15
Similarity score:	0.030544

Alignment:
CYCCBCSGVCYCCBC
CCBCYSSSGCCCCSS

Original motif Consensus sequence: CYCCBCSGVCYCCBC



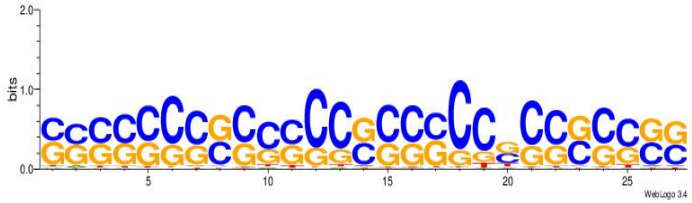
Reverse complement motif Consensus sequence: GVGGMGVCSGBGGMG



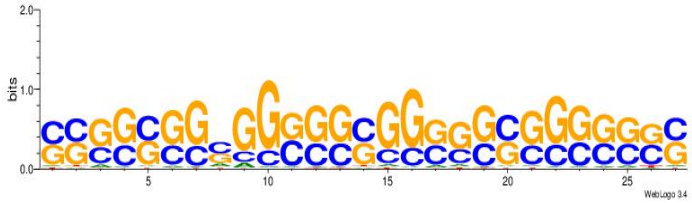
Dataset #:	1
Motif ID:	4
Motif name:	C004
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	9
Number of overlap:	15
Similarity score:	0.0362599

Alignment:
SSSSSSGSGGSSSSGGSSSSSGSSSSS
----SSGGGGCSSSKGBGG--------

Original motif Consensus sequence:
SSSSSCSSSSSCCSSSSCCSCSSSSSS



Reverse complement motif Consensus sequence:
SSSSSSGSGGSSSSGGSSSSSGSSSSS

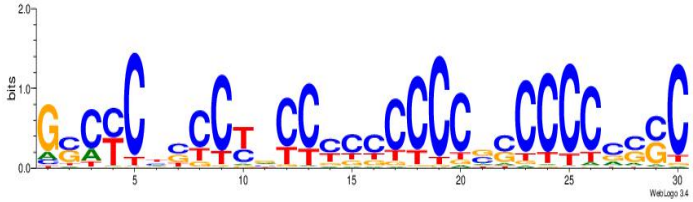


Dataset #:	1
Motif ID:	3
Motif name:	C003
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	14
Number of overlap:	15
Similarity score:	0.0409351

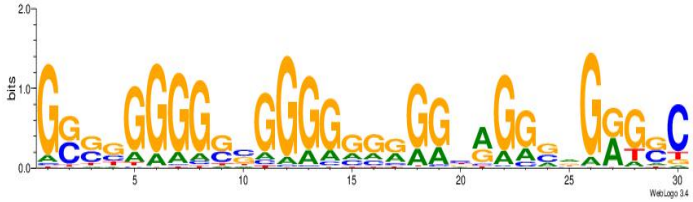
Alignment:

```
GSSGGGGGSSGGGGGGKGGVMGGSHGKGSC
--SSGGGGCSSSKGBGG-------------
```

Original motif Consensus sequence:
GSCYCHSCCYVCCYCCCCCCSSCCCCCSSC



Reverse complement motif Consensus sequence:
GSSGGGGGSSGGGGGGKGGVMGGSHGKGSC

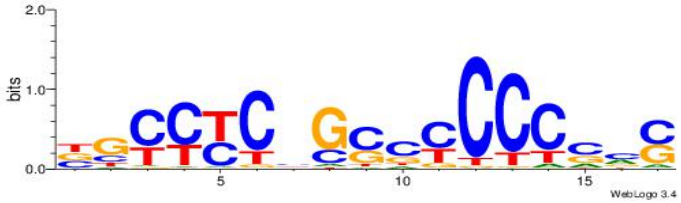


Dataset #:	1
Motif ID:	22
Motif name:	C022
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	15
Similarity score:	0.0453525

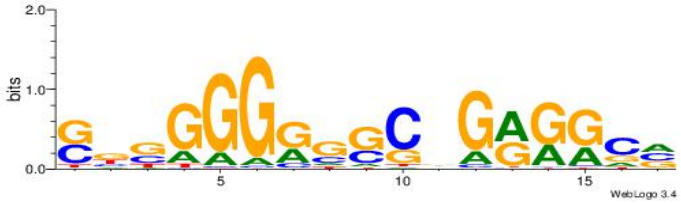
Alignment:

```
BGCCYCBGSCYCCCSVS
--CCBCYSSSGCCCCSS
```

Original motif Consensus sequence: BGCCYCBGSCYCCCSVS



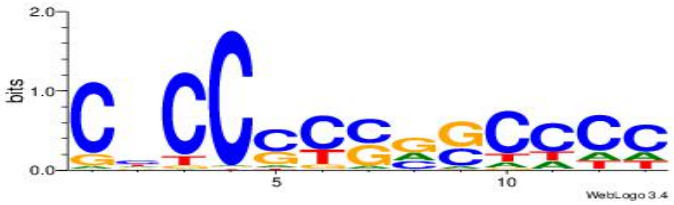
Reverse complement motif Consensus sequence: SVSGGGKGSCBGMGGCV

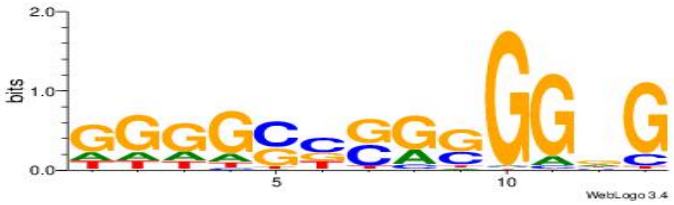


Dataset #: 1 Motif ID: 113 Motif name: C113

Original motif Consensus sequence: CHCCSCSVSCCCC

Reverse complement motif Consensus sequence: GGGGSVSGSGGD





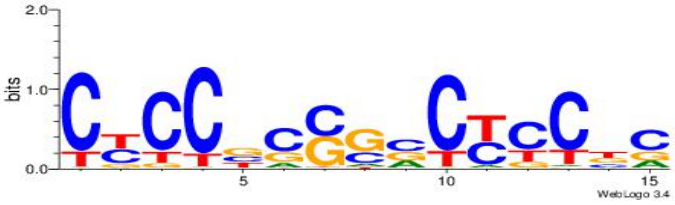
Best Matches for Motif ID 113 (Highest to Lowest)

Dataset #:	1
Motif ID:	58
Motif name:	C058
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.00967619

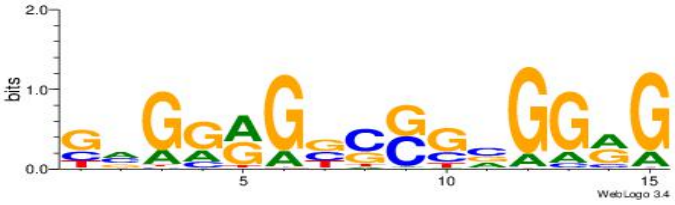
Alignment:

```
CYCCBCSGVCYCCBC
CHCCSCSVSCCCC--
```

Original motif Consensus sequence: CYCCBCSGVCYCCBC



Reverse complement motif Consensus sequence: GVGGMGVCSGBGGMG

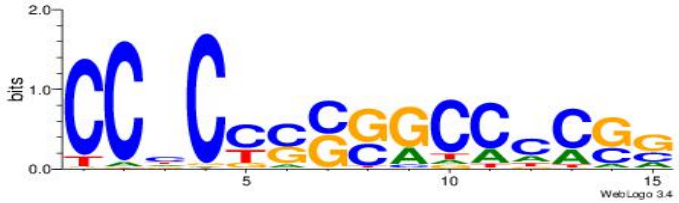


Dataset #:	1
Motif ID:	112
Motif name:	C112
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.0176733

Alignment:

```
SSGGGGCSSSKGBGG
--GGGGSVSGSGGDG
```

Original motif Consensus sequence: CCBCYSSSGCCCCSS



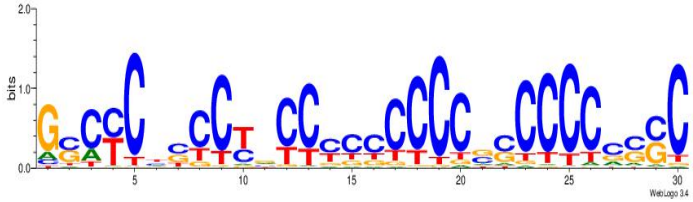
Reverse complement motif Consensus sequence: SSGGGGCSSSKGBGG

Dataset #:	1
Motif ID:	3
Motif name:	C003
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4

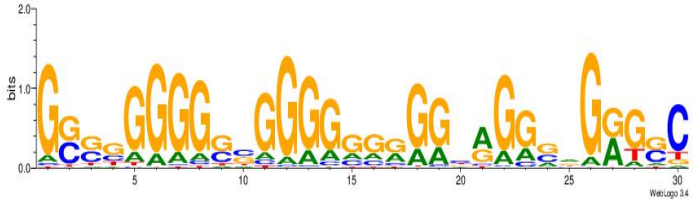
Number of overlap: 13
Similarity score: 0.0208066

Alignment:
GSSGGGGGSSGGGGGGKGGVMGGSHGKGSC
---GGGGSVSGSGGDG----------

Original motif Consensus sequence:
GSCYCHSCCYVCCYCCCCCCSSCCCCCSSC



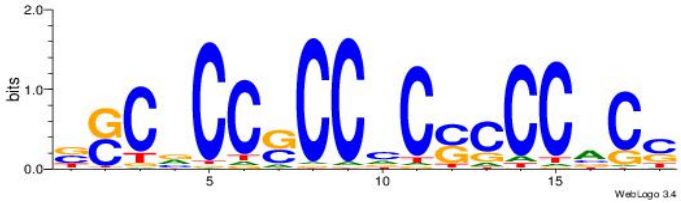
Reverse complement motif Consensus sequence:
GSSGGGGGSSGGGGGGKGGVMGGSHGKGSC



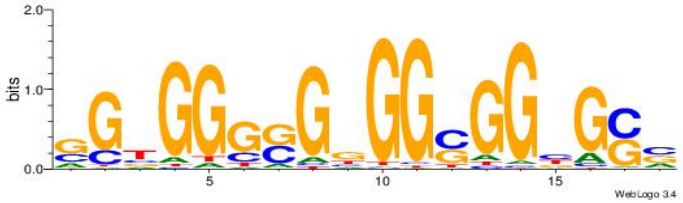
Dataset #: 1
Motif ID: 20
Motif name: C020
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 1
Number of overlap: 13
Similarity score: 0.02801

Alignment:
SGTGGGSGVGGSGGVGSB
GGGGSVSGSGGDG-----

Original motif Consensus sequence: BSCVCCSCCVCSCCCACS



Reverse complement motif Consensus sequence: SGTGGGSGVGGSGGVGSB

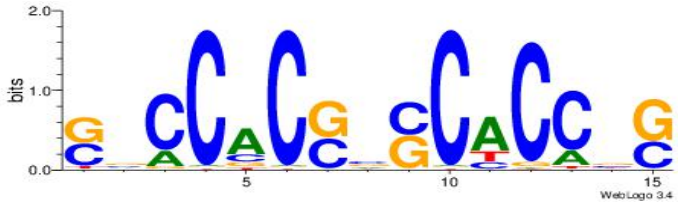


Dataset #:	1
Motif ID:	71
Motif name:	C071
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.0297711

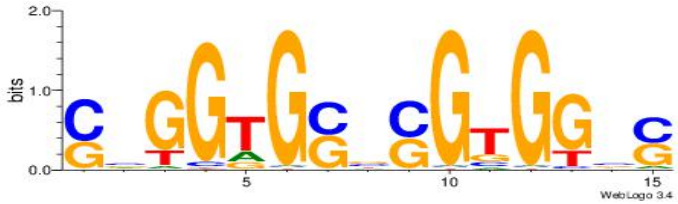
Alignment:

```
SVCCACSVSCACCBS
CHCCSCSVSCCCC--
```

Original motif Consensus sequence: SVCCACSVSCACCBS

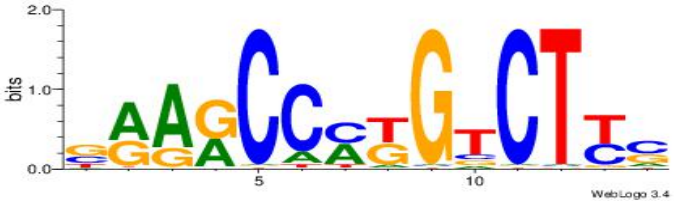


Reverse complement motif Consensus sequence: SBGGTGSVSGTGG

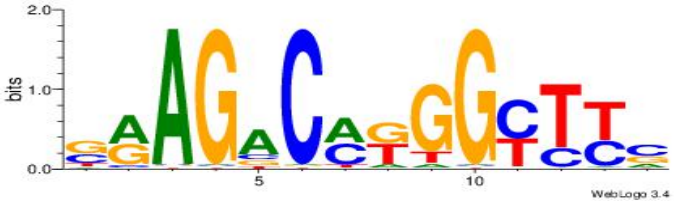


Dataset #: 1 Motif ID: 114 Motif name: C114

Original motif Consensus sequence: SRARCCMKGTCTYS



Reverse complement motif Consensus sequence: SMAGACRRGGMTK



Best Matches for Motif ID 114 (Highest to Lowest)

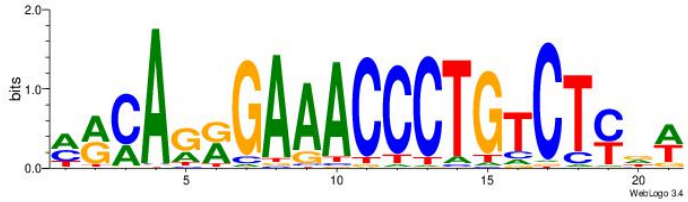
Dataset #:	1
Motif ID:	27
Motif name:	C027
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.0171714

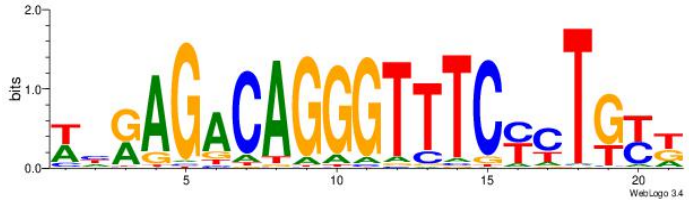
Alignment:

```
MRCAGRGAAACCCTGTCTYDW
------SRARCCMKGTCTYS-
```

Original motif Consensus sequence: MRCAGRGAAACCCTGTCTYDW

Reverse complement motif Consensus sequence: WHKAGACAGGGTTTCMCTGKY

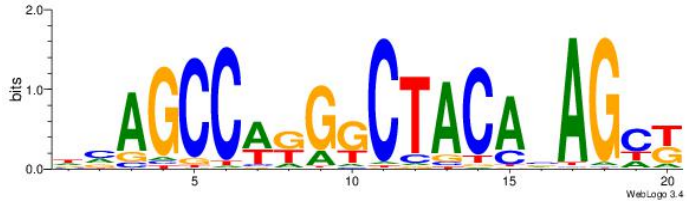




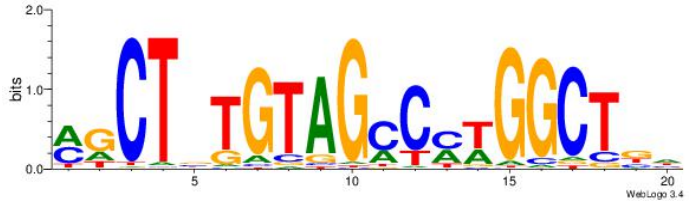
Dataset #: 1
Motif ID: 15
Motif name: C015
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 7
Number of overlap: 14
Similarity score: 0.0317787

Alignment:
DVAGCCWKGGCTACAVAGCK
SRARCCMKGTCTYS------

Original motif Consensus sequence: DVAGCCWKGGCTACAVAGCK



Reverse complement motif Consensus sequence: RGCTVTGTAGCCYWGGCTVD



Dataset #: 1

Motif ID:	120
Motif name:	C120
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.0398727

Alignment:

```
TGARACMSKGTYTCA
-SRARCCMKGTCTYS
```

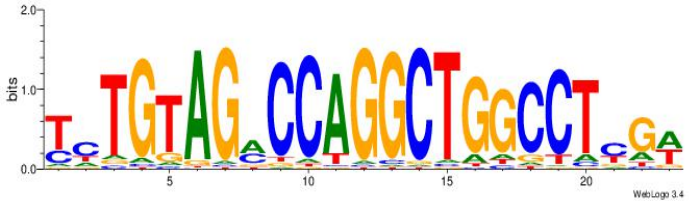
Original motif Consensus sequence: TGARACMSKGTYTCA

Reverse complement motif Consensus sequence: TGAMACRSYGTKT

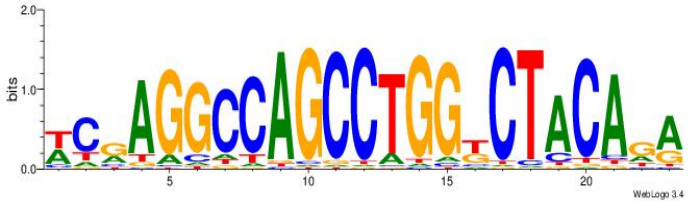
Dataset #:	1
Motif ID:	5
Motif name:	C005
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	7
Number of overlap:	14
Similarity score:	0.0429912

Alignment:
WCKAGGCCAGCCTGGYCTACAGA
---SRARCCMKGTCTYS------

Original motif Consensus sequence: TCTGTAGMCCAGGCTGGCCTYGW



Reverse complement motif Consensus sequence: WCKAGGCCAGCCTGGYCTACAGA

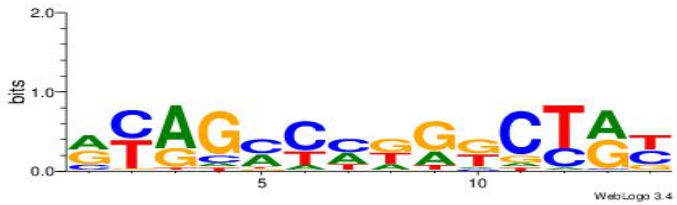


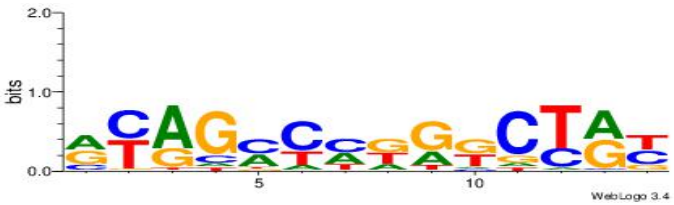
Dataset #:	1
Motif ID:	45
Motif name:	C045
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.046959

Alignment:
MKAGYCYRGRCTKK
SRARCCMKGTCTYS

Original motif Consensus sequence: RYAGMCMKGKCTRY

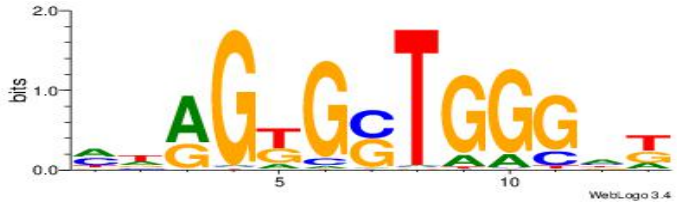
Reverse complement motif Consensus sequence: MKAGYCYRGRCTK



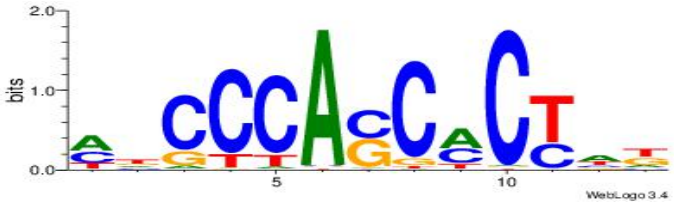


Dataset #: 1 Motif ID: 115 Motif name: C115

Original motif Consensus sequence: MDRGKGSTGGGHK



Reverse complement motif Consensus sequence: RHCCCASCRCKDY



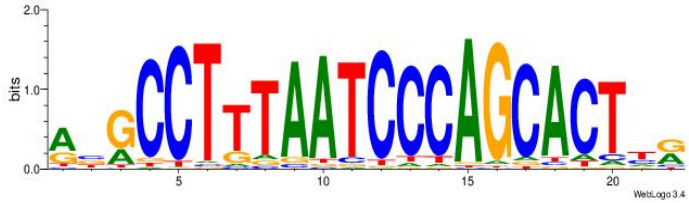
Best Matches for Motif ID 115 (Highest to Lowest)

Dataset #:	1
Motif ID:	9
Motif name:	C009
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	10
Number of overlap:	13
Similarity score:	0

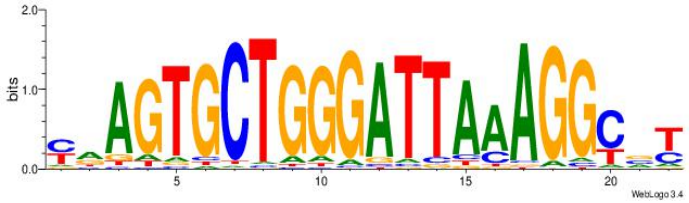
Alignment:

```
ABGCCTTTAATCCCAGCACTHR
RHCCCASCRCKDY---------
```

Original motif Consensus sequence: ABGCCTTTAATCCCAGCACTHR



Reverse complement motif Consensus sequence: MHAGTGCTGGGATTAAAGGCBT

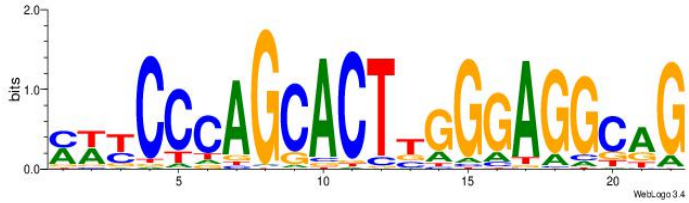


Dataset #:	1
Motif ID:	19
Motif name:	C019
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	9
Number of overlap:	13
Similarity score:	0.00252173

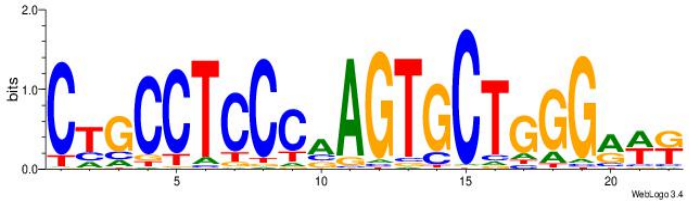
Alignment:

```
MWYCCCAGCACTTGGGAGGCAG
--------RHCCCASCRCKDY-
```

Original motif Consensus sequence: MWYCCCAGCACTTGGGAGGCAG



Reverse complement motif Consensus sequence: CTGCCTCCCAAGTGCTGGGMWR

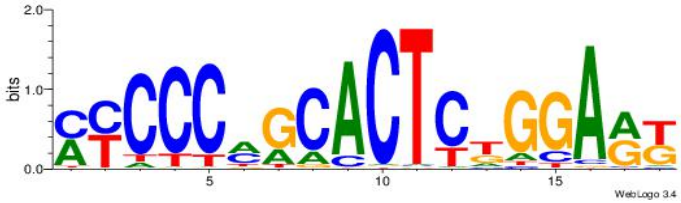


Dataset #:	1
Motif ID:	99
Motif name:	C099
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.0192508

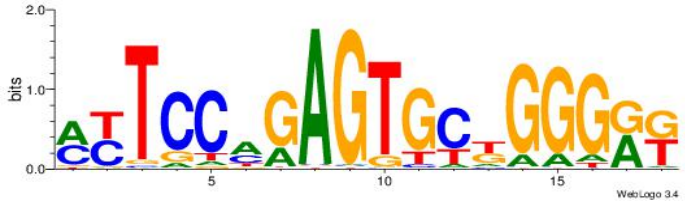
Alignment:

```
RKTCCRGAGTGCYGGGKR
MDRGKGSTGGGHK-----
```

Original motif Consensus sequence: MYCCCMGCACTCKGGARK



Reverse complement motif Consensus sequence: RKTCCRGAGTGCYGGGKR

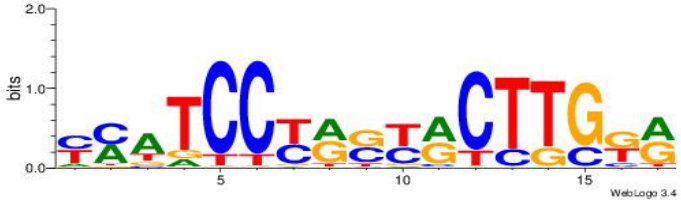


Dataset #:	1
Motif ID:	141
Motif name:	C141
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3

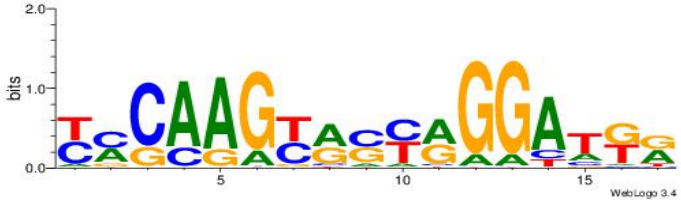
Number of overlap: 13
Similarity score: 0.0235596

Alignment:
YMATCCYRSYRCTTGKR
--RHCCCASCRCKDY--

Original motif Consensus sequence: YMATCCYRSYRCTTGKR



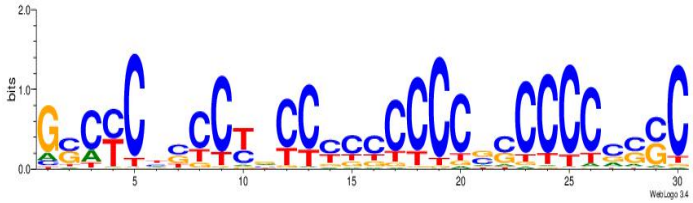
Reverse complement motif Consensus sequence: KYCAAGKMSKMGGATRK



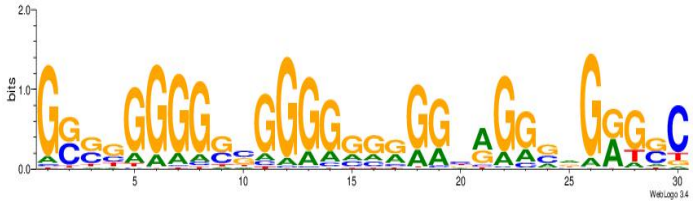
Dataset #: 1
Motif ID: 3
Motif name: C003
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 16
Number of overlap: 13
Similarity score: 0.0285571

Alignment:
GSCYCHSCCYVCCYCCCCCCSSCCCCCSSC
--RHCCCASCRCKDY---------------

Original motif Consensus sequence:
GSCYCHSCCYVCCYCCCCCCSSCCCCCSSC

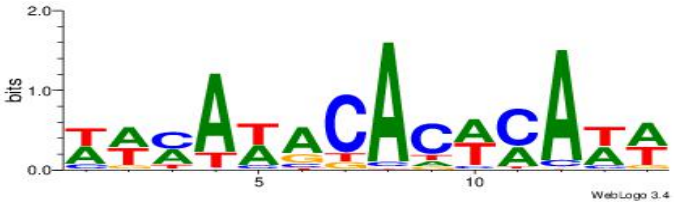


Reverse complement motif Consensus sequence:
GSSGGGGGSSGGGGGGKGGVMGGSHGKGSC

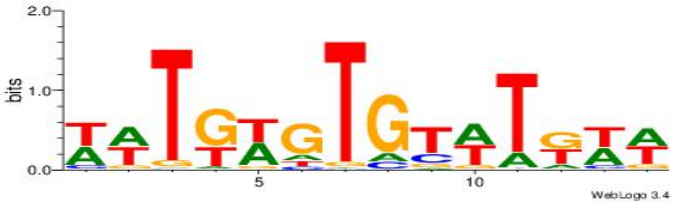


Dataset #: 1 Motif ID: 116 Motif name: C116

Original motif Consensus sequence: WWMAWACACWMAWW



Reverse complement motif Consensus sequence:
WWTRWGTGTWTRWW

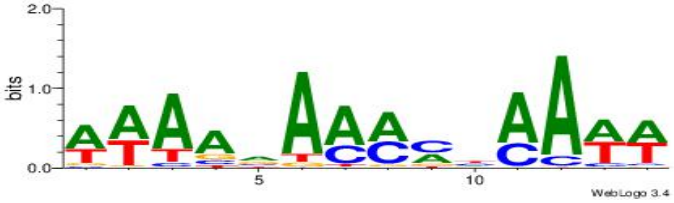


Best Matches for Motif ID 116 (Highest to Lowest)

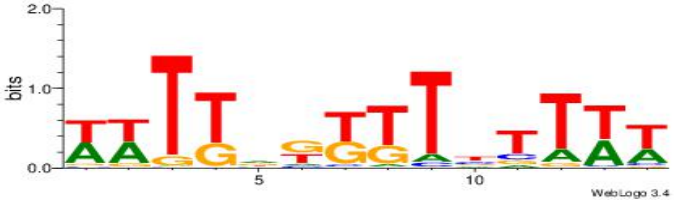
Dataset #:	1
Motif ID:	80
Motif name:	C080
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.024005

Alignment:
WWAAVAAMMHAAWW
WWMAWACACWMAWW

Original motif Consensus sequence: WWAAVAAMMHAAWW



Reverse complement motif Consensus sequence: WWTTHRYTTBTTW

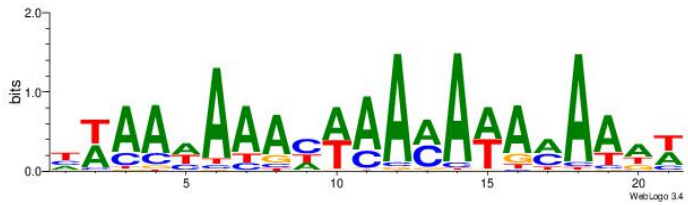


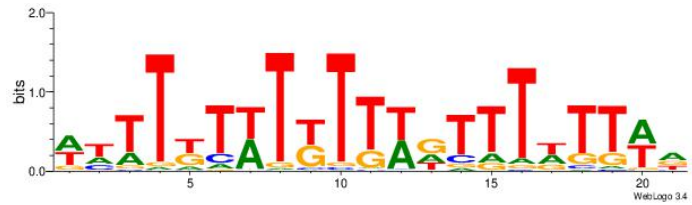
Dataset #:	1
Motif ID:	16
Motif name:	C016
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.0270168

Alignment:
HWAAWAAAHWAAMAWAMAAWW
WWMAWACACWMAWW-------

Original motif Consensus sequence: HWAAWAAAHWAAMAWAMAAWW

Reverse complement motif Consensus sequence: WWTTYTWTYTTWDTTTWTTWH

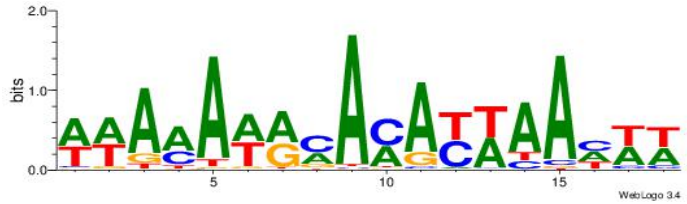




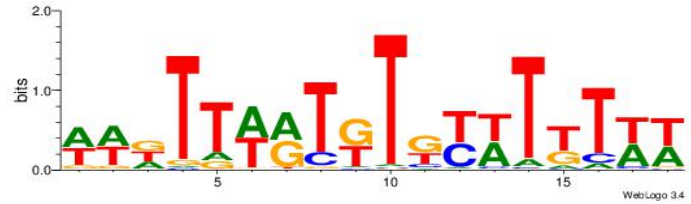
Dataset #: 1
Motif ID: 62
Motif name: C062
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 14
Similarity score: 0.027254

Alignment:
WWAMAWRMAMAYWAAHWW
-WWMAWACACWMAWW---

Original motif Consensus sequence: WWAMAWRMAMAYWAAHWW



Reverse complement motif Consensus sequence: WWDTTWMTRTRKWTYTWW



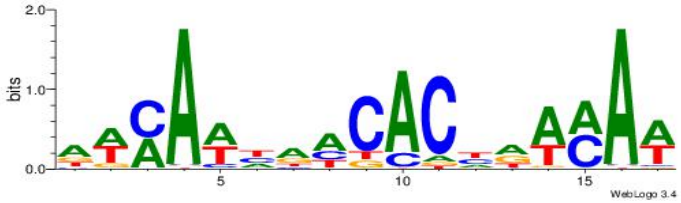
Dataset #: 1

Motif ID:	133
Motif name:	C133
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	4
Number of overlap:	14
Similarity score:	0.0314544

Alignment:

```
WTYWKHGTGTDHWTRWT
---WWTRWGTGTWTRWW
```

Original motif Consensus sequence: AWMAWHDACACHRWMAW



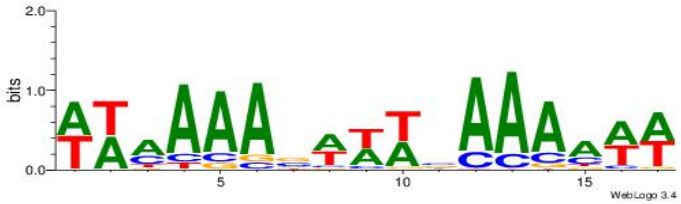
Reverse complement motif Consensus sequence: WTYWKHGTGTDHWTRWT

Dataset #:	1
Motif ID:	139
Motif name:	C139
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	14

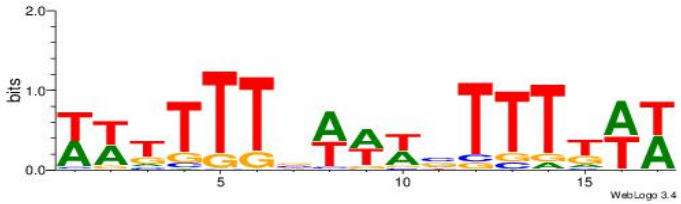
Similarity score: 0.0315898

Alignment:
WWMAAABWWWVAAAAWW
WWMAWACACWMAWW---

Original motif Consensus sequence: WWMAAABWWWVAAAAWW

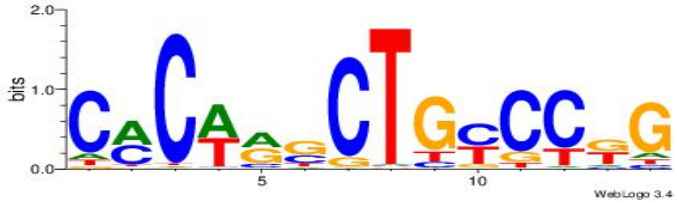


Reverse complement motif Consensus sequence: WWTTTTVWWWBTTTYWW



Dataset #: 1 Motif ID: 117 Motif name: C117

Original motif Consensus sequence: CMCWRSCTGYCCKG



Reverse complement motif Consensus sequence: CYGGKCAGSKWGY

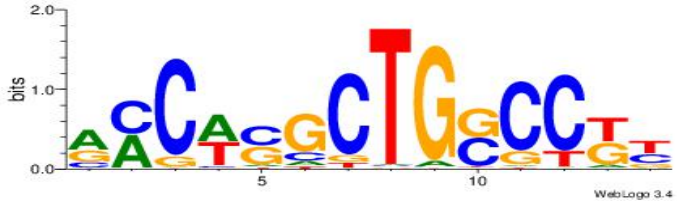
Best Matches for Motif ID 117 (Highest to Lowest)

Dataset #:	1
Motif ID:	109
Motif name:	C109
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif

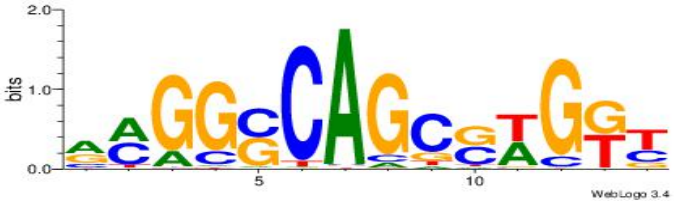
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.00078041

Alignment:
RMCWSGCTGSCCKY
CMCWRSCTGYCCKG

Original motif Consensus sequence: RMCWSGCTGSCCKY



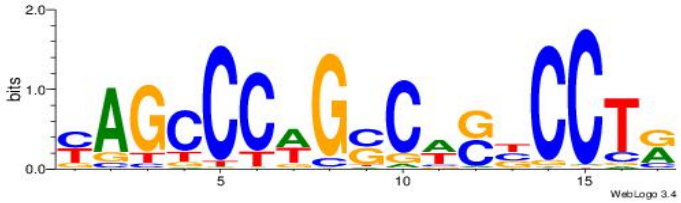
Reverse complement motif Consensus sequence: MRGGSCAGCSWG



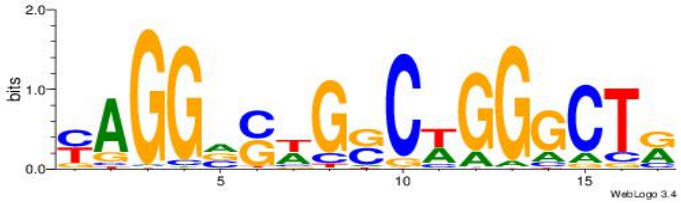
Dataset #:	1
Motif ID:	122
Motif name:	C122
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.0180152

Alignment:
YAGCCCWGSCWSBCCTR
---CMCWRSCTGYCCKG

Original motif Consensus sequence: YAGCCCWGSCWSBCCTR



Reverse complement motif Consensus sequence: MAGGVSWGSCWGGGCTK

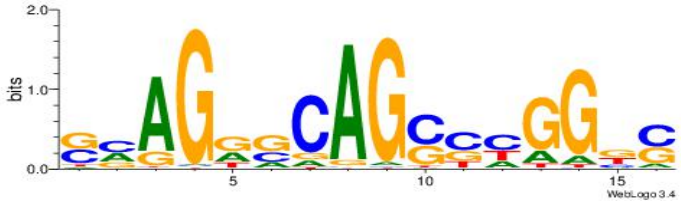


Dataset #:	1
Motif ID:	39
Motif name:	C039
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.0207362

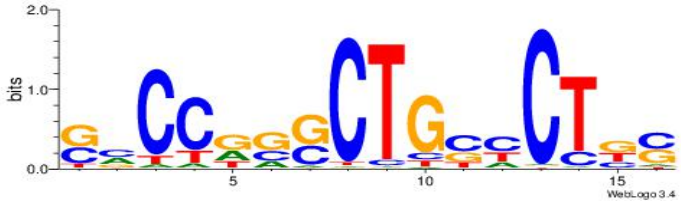
Alignment:

```
SMAGRSCAGSSYGGBS
-CYGGKCAGSKWGYG-
```

Original motif Consensus sequence: SMAGRSCAGSSYGGBS



Reverse complement motif Consensus sequence: SBCCKSSCTGSMCTRS

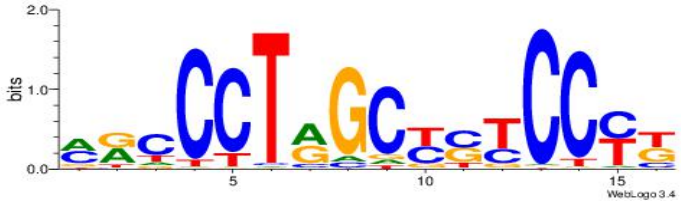


Dataset #:	1
Motif ID:	121
Motif name:	C121
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	14
Similarity score:	0.0219721

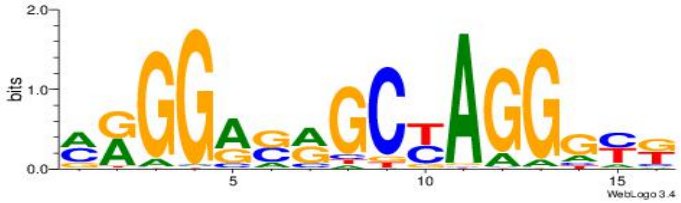
Alignment:

```
MRCCCTRGCYSTCCYK
--CMCWRSCTGYCCKG
```

Original motif Consensus sequence: MRCCCTRGCYSTCCYK



Reverse complement motif Consensus sequence: RKGGASMGCKAGGGMY



Dataset #:	1
Motif ID:	3
Motif name:	C003
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3

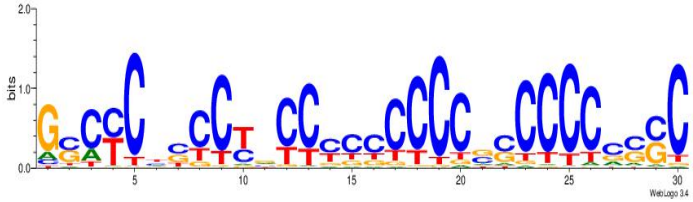
Number of overlap: 14

Similarity score: 0.0258359

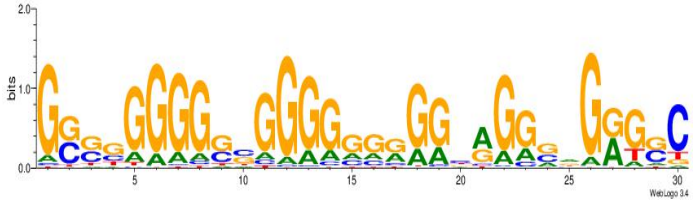
Alignment:

```
GSSGGGGGSSGGGGGGKGGVMGGSHGKGSC
--------------CYGGKCAGSKWGYG--
```

Original motif Consensus sequence:
GSCYCHSCCYVCCYCCCCCCSSCCCCCSSC

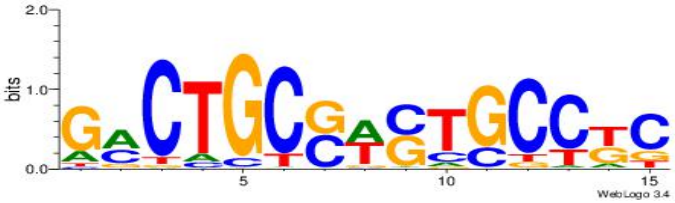


Reverse complement motif Consensus sequence:
GSSGGGGGSSGGGGGGKGGVMGGSHGKGSC

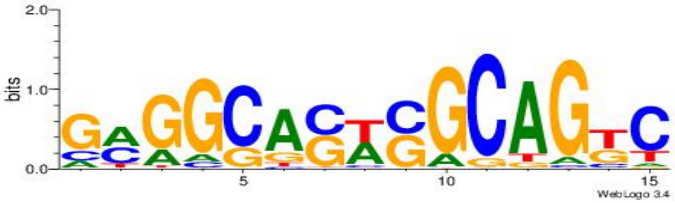


Dataset #: 1 Motif ID: 118 Motif name: C118

Original motif Consensus sequence: GMCTGCSWSTGCCKC



Reverse complement motif Consensus sequence:
GRGGCASWSGCAGYC



Best Matches for Motif ID 118 (Highest to Lowest)

Dataset #: 1

Motif ID: 48

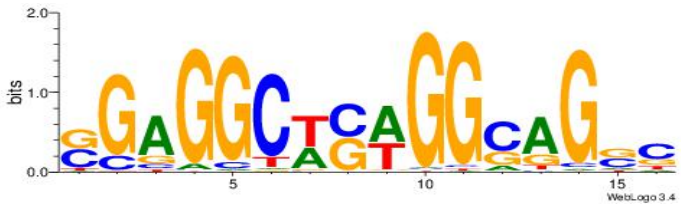
Motif name: C048

Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	15
Similarity score:	0.0102426

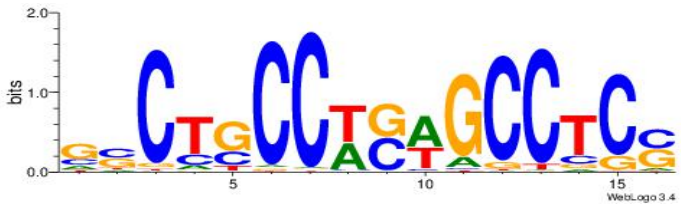
Alignment:

```
SGAGGCWSWGGCAGSC
GRGGCASWSGCAGYC-
```

Original motif Consensus sequence: SGAGGCWSWGGCAGSC



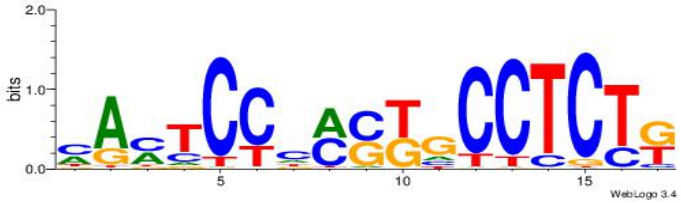
Reverse complement motif Consensus sequence: GSCTGCCWSWGCCTCS



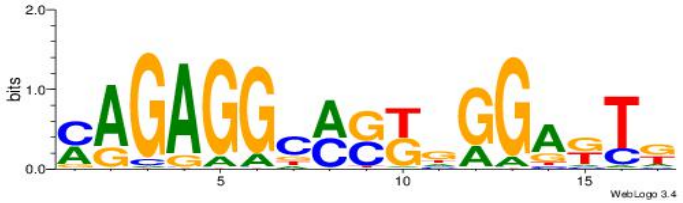
Dataset #:	1
Motif ID:	66
Motif name:	C066
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	15
Similarity score:	0.038962

Alignment:
MAMTCCCMSKGCCTCTK
GMCTGCSWSTGCCKC--

Original motif Consensus sequence: MAMTCCCMSKGCCTCTK



Reverse complement motif Consensus sequence: YAGAGGCRSYGGGARTR

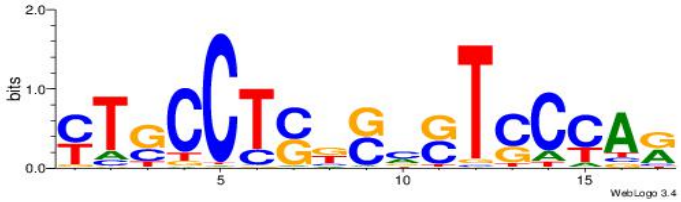


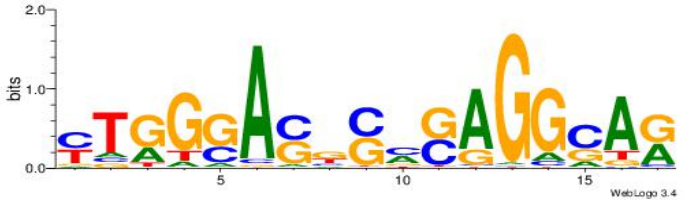
Dataset #:	1
Motif ID:	101
Motif name:	C101
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	15
Similarity score:	0.0391353

Alignment:
YTSCCTSKSVSTCCCAR
--GMCTGCSWSTGCCKC

Original motif Consensus sequence: YTSCCTSKSVSTCCCAR

Reverse complement motif Consensus sequence: MTGGGASVSYSAGGSAK



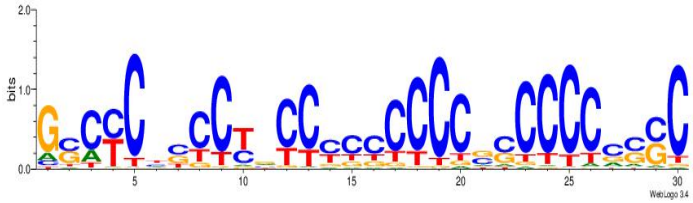


Dataset #:	1
Motif ID:	3
Motif name:	C003
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	15
Similarity score:	0.0425686

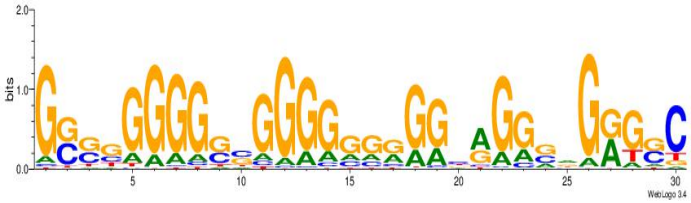
Alignment:

```
GSCYCHSCCYVCCYCCCCCCSSCCCCCSSC
GMCTGCSWSTGCCKC---------------
```

Original motif Consensus sequence:
GSCYCHSCCYVCCYCCCCCCSSCCCCCSSC



Reverse complement motif Consensus sequence:
GSSGGGGGSSGGGGGGKGGVMGGSHGKGSC



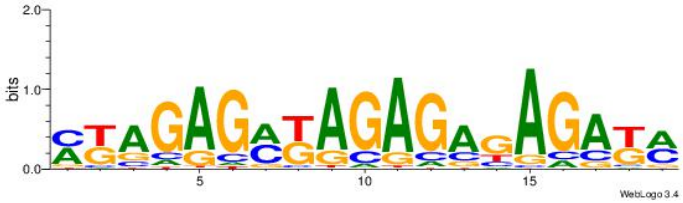
Dataset #: 1

Motif ID:	12
Motif name:	C012
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	15
Similarity score:	0.0460327

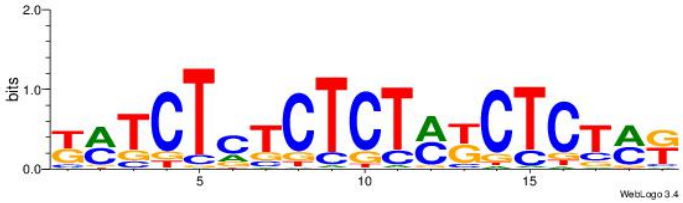
Alignment:

```
MKAGAGMKAGAGAGAGAKM
-GRGGCASWSGCAGYC---
```

Original motif Consensus sequence: MKAGAGMKAGAGAGAGAKM

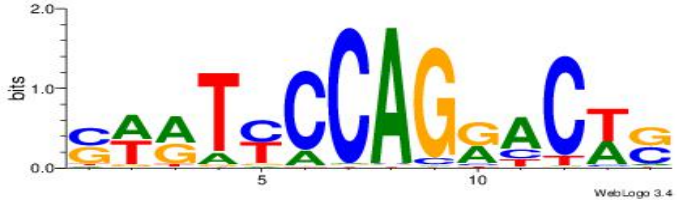


Reverse complement motif Consensus sequence: YRTCTCTCTCTRYCTCTRR

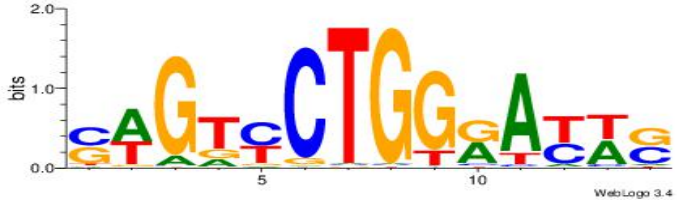


Dataset #: 1 Motif ID: 119 Motif name: C119

Original motif Consensus sequence: SWRTYCCAGRACWS



Reverse complement motif Consensus sequence: SWGTMCTGGKAK



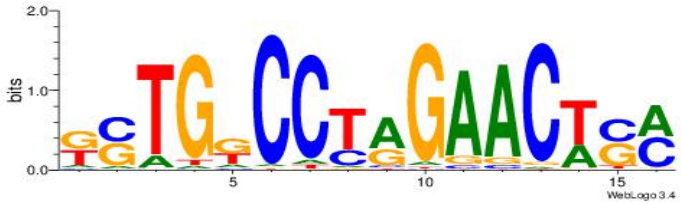
Best Matches for Motif ID 119 (Highest to Lowest)

Dataset #:	1
Motif ID:	46
Motif name:	C046
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.0349267

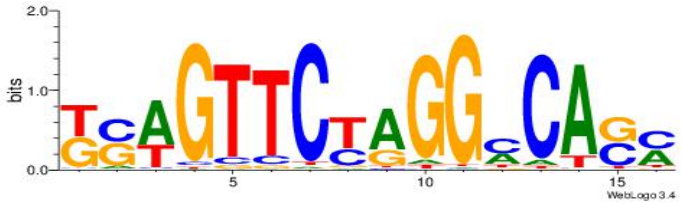
Alignment:

```
KSTGKCCTRGAACWSM
-SWRTYCCAGRACWS-
```

Original motif Consensus sequence: KSTGKCCTRGAACWSM



Reverse complement motif Consensus sequence: YSWGTTCKAGGYCASY



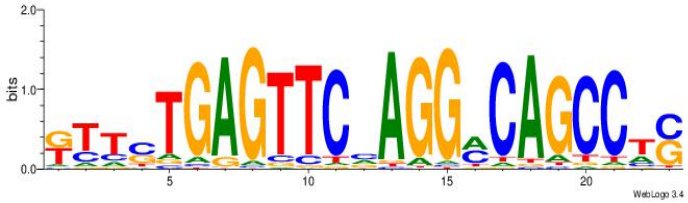
Dataset #:	1
Motif ID:	7
Motif name:	C007
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif

Direction:	Backward
Position number:	5
Number of overlap:	14
Similarity score:	0.0389643

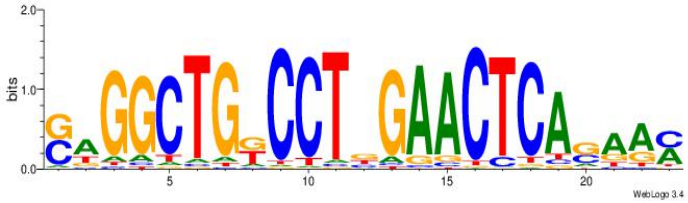
Alignment:

```
KTTSTGAGTTCVAGGMCAGCCTS
-----SWRTYCCAGRACWS----
```

Original motif Consensus sequence: KTTSTGAGTTCVAGGMCAGCCTS



Reverse complement motif Consensus sequence: SAGGCTGYCCTVGAACTCASAAY

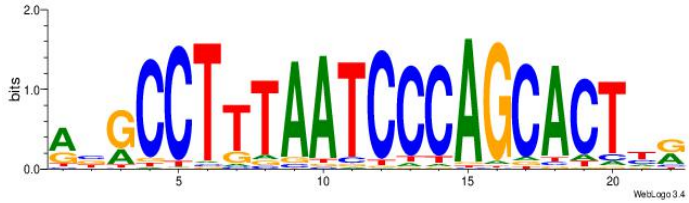


Dataset #:	1
Motif ID:	9
Motif name:	C009
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.0394017

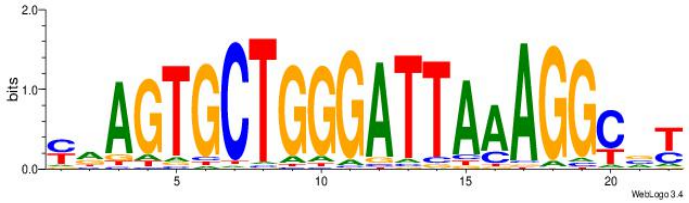
Alignment:

```
ABGCCTTTAATCCCAGCACTHR
-------SWRTYCCAGRACWS-
```

Original motif Consensus sequence: ABGCCTTTAATCCCAGCACTHR



Reverse complement motif Consensus sequence: MHAGTGCTGGGATTAAAGGCBT

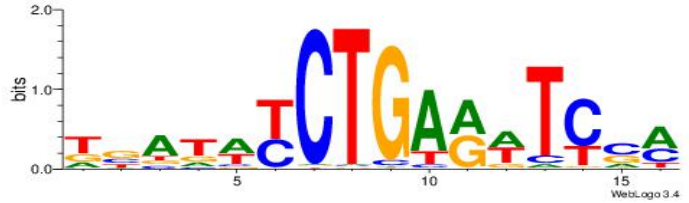


Dataset #:	1
Motif ID:	111
Motif name:	C111
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.0500681

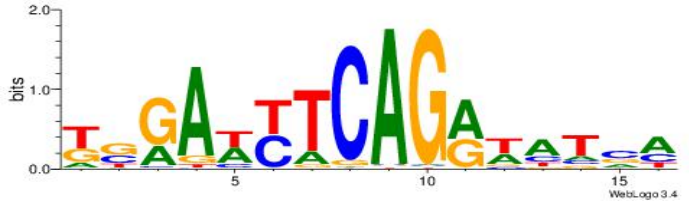
Alignment:

```
YSGAWKTCAGMWATBA
-SWRTYCCAGRACWS-
```

Original motif Consensus sequence: TBATWYCTGARWTCSM



Reverse complement motif Consensus sequence: YSGAWKTCAGMWATBA

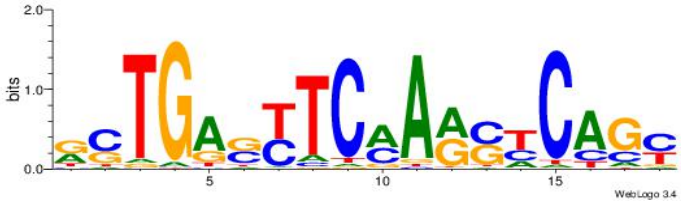


Dataset #:	1
Motif ID:	40
Motif name:	C040
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	14
Similarity score:	0.0507794

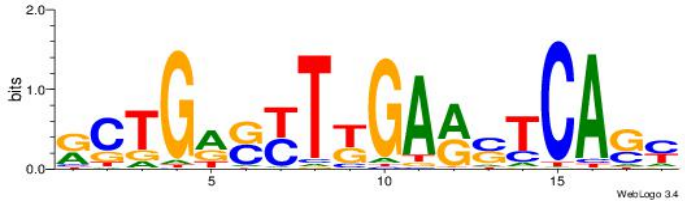
Alignment:

```
RSTGASYTCMARSYCAGY
---SWRTYCCAGRACWS-
```

Original motif Consensus sequence: RSTGASYTCMARSYCAGY



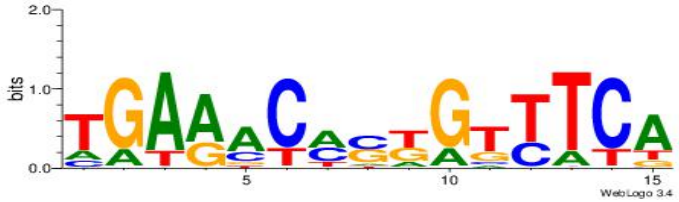
Reverse complement motif Consensus sequence: KCTGMSKTYGAMSTCASM



Dataset #: 1 Motif ID: 120 Motif name: C120

Original motif Consensus sequence: TGARACMSKGTYTCA

Reverse complement motif Consensus sequence: TGAMACRSYGTKT



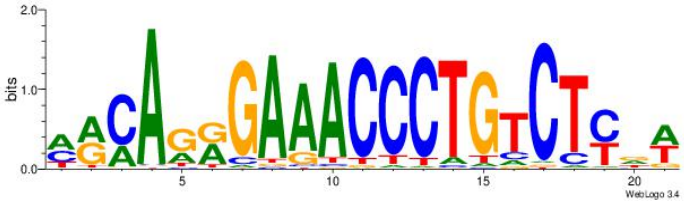
Best Matches for Motif ID 120 (Highest to Lowest)

Dataset #:	1
Motif ID:	27
Motif name:	C027
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	15
Similarity score:	0.00903899

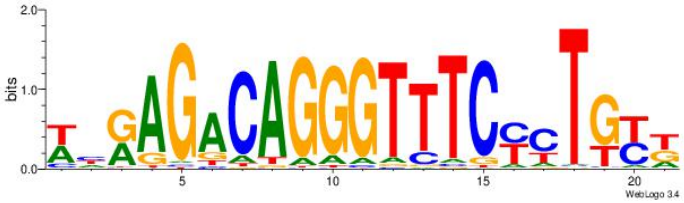
Alignment:

```
MRCAGRGAAACCCTGTCTYDW
-----TGARACMSKGTYTCA-
```

Original motif Consensus sequence: MRCAGRGAAACCCTGTCTYDW



Reverse complement motif Consensus sequence: WHKAGACAGGGTTTCMCTGKY

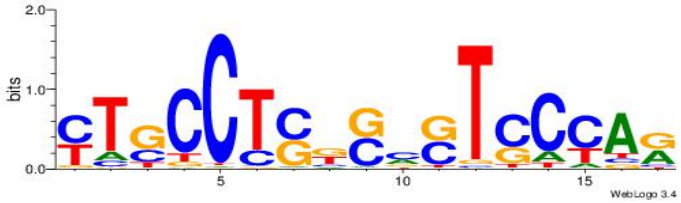


Dataset #:	1
Motif ID:	101
Motif name:	C101
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	15
Similarity score:	0.0323346

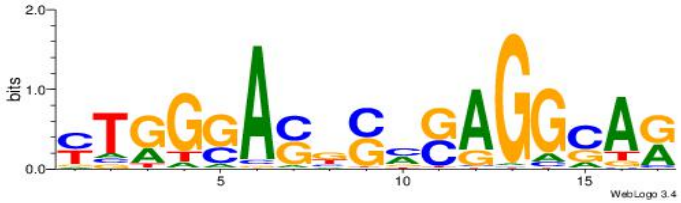
Alignment:

```
MTGGGASVSYSAGGSAK
-TGAMACRSYGTKTCA-
```

Original motif Consensus sequence: YTSCCTSKSVSTCCCAR



Reverse complement motif Consensus sequence: MTGGGASVSYSAGGSAK

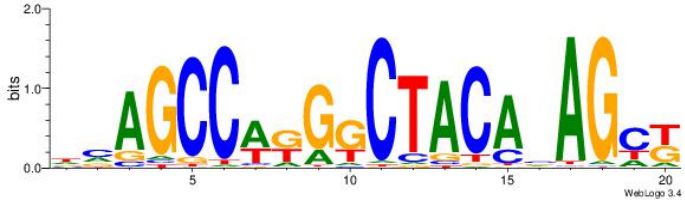


Dataset #:	1
Motif ID:	15
Motif name:	C015
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6

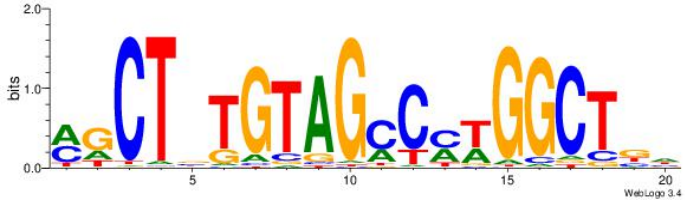
Number of overlap: 15
Similarity score: 0.034022

Alignment:
DVAGCCWKGGCTACAVAGCK
TGARACMSKGTYTCA-----

Original motif Consensus sequence: DVAGCCWKGGCTACAVAGCK



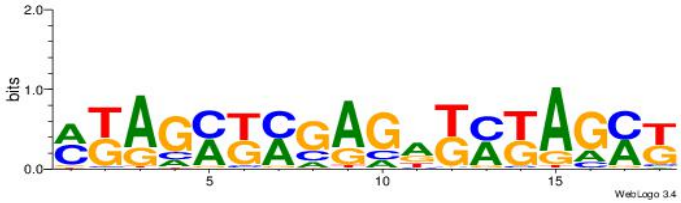
Reverse complement motif Consensus sequence: RGCTVTGTAGCCYWGGCTVD



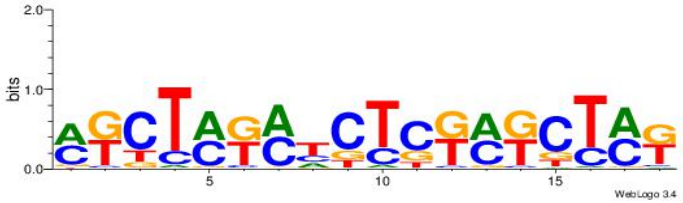
Dataset #: 1
Motif ID: 36
Motif name: C036
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 15
Similarity score: 0.0412488

Alignment:
MKAGMKMGAGAKMKAGMK
TGARACMSKGTYTCA---

Original motif Consensus sequence: MKAGMKMGAGAKMKAGMK



Reverse complement motif Consensus sequence: RRCTRRRTCTCRRRCTRY

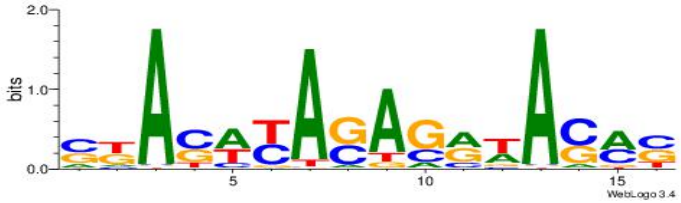


Dataset #:	1
Motif ID:	125
Motif name:	C125
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	15
Similarity score:	0.0418412

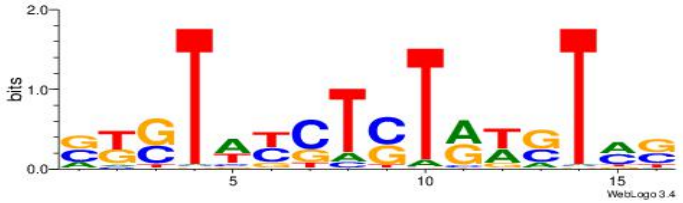
Alignment:

```
SKASWYASAGRWASMS
TGARACMSKGTYTCA-
```

Original motif Consensus sequence: SKASWYASAGRWASMS

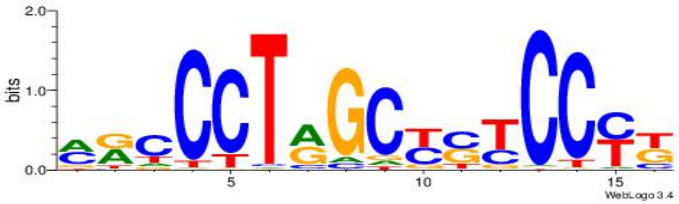


Reverse complement motif Consensus sequence: SYSTWKCTSTMWSTRS

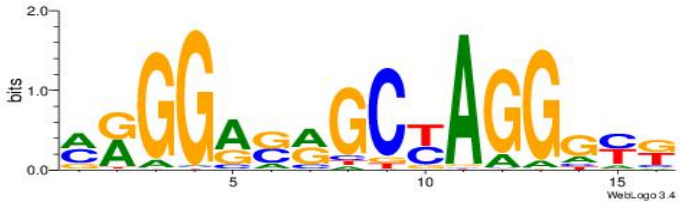


Dataset #: 1 Motif ID: 121 Motif name: C121

Original motif Consensus sequence: MRCCCTRGCYSTCCYK



Reverse complement motif Consensus sequence: RKGGASMGCKAGGGMY



Best Matches for Motif ID 121 (Highest to Lowest)

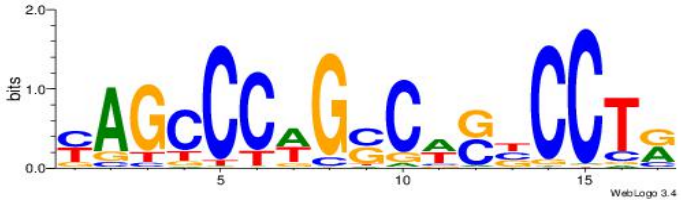
Dataset #:	1
Motif ID:	122
Motif name:	C122
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	16
Similarity score:	0.0165722

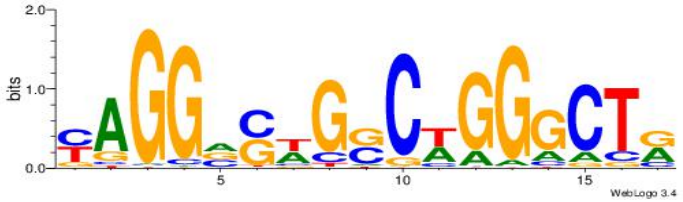
Alignment:

```
YAGCCCWGSCWSBCCTR
-MRCCCTRGCYSTCCYK
```

Original motif Consensus sequence: YAGCCCWGSCWSBCCTR

Reverse complement motif Consensus sequence: MAGGVSWGSCWGGGCTK

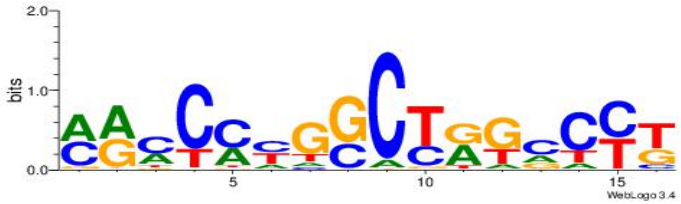




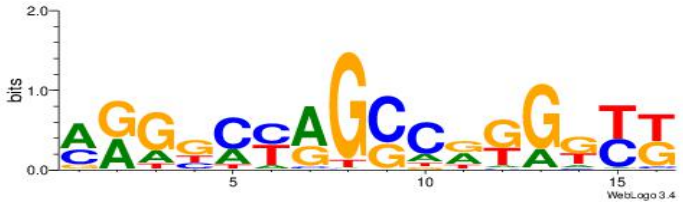
Dataset #: 1
Motif ID: 96
Motif name: C096
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 16
Similarity score: 0.0213031

Alignment:
MRMCMYGSCYRGCCYK
MRCCCTRGCYSTCCYK

Original motif Consensus sequence: MRMCMYGSCYRGCCYK



Reverse complement motif Consensus sequence: RKGGCMMGSCKRGRKY



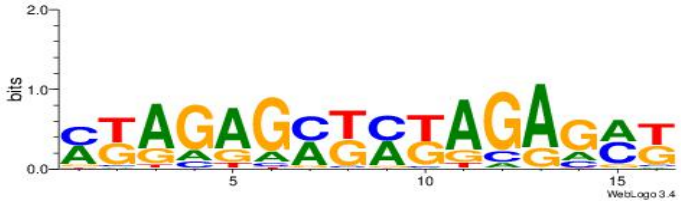
Dataset #: 1

Motif ID:	55
Motif name:	C055
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.027157

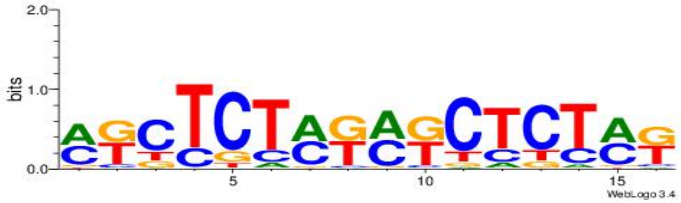
Alignment:

```
RYCTCTRRRRCTCTRR
MRCCCTRGCYSTCCYK
```

Original motif Consensus sequence: MKAGAGMKMKAGAGMK



Reverse complement motif Consensus sequence: RYCTCTRRRRCTCTRR

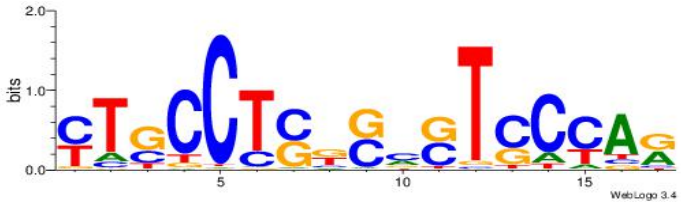


Dataset #:	1
Motif ID:	101
Motif name:	C101
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	16

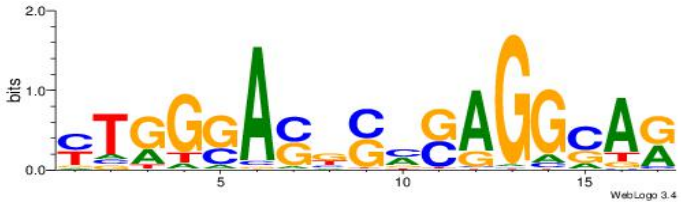
Similarity score: 0.034049

Alignment:
MTGGGASVSYSAGGSAK
-RKGGASMGCKAGGGMY

Original motif Consensus sequence: YTSCCTSKSVSTCCCAR



Reverse complement motif Consensus sequence: MTGGGASVSYSAGGSAK

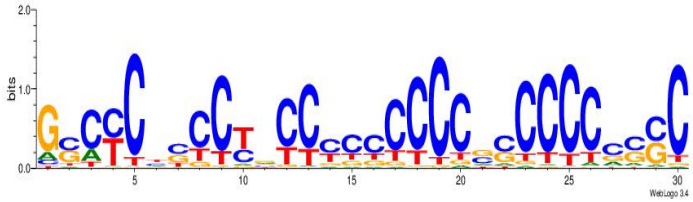


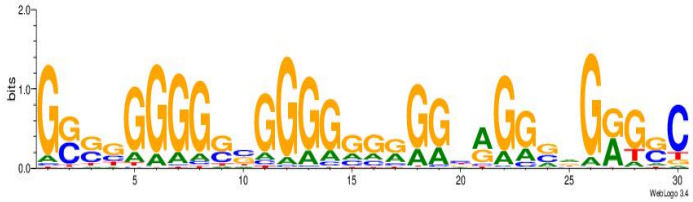
Dataset #: 1
Motif ID: 3
Motif name: C003
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 11
Number of overlap: 16
Similarity score: 0.0360277

Alignment:
GSCYCHSCCYVCCYCCCCCCSSCCCCCSSC
----MRCCCTRGCYSTCCYK----------

Original motif Consensus sequence: GSCYCHSCCYVCCYCCCCCCSSCCCCCSSC

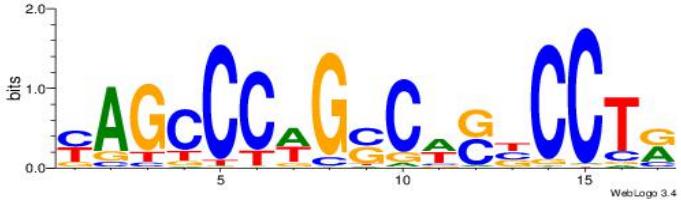
Reverse complement motif Consensus sequence: GSSGGGGGSSGGGGGGKGGVMGGSHGKGSC



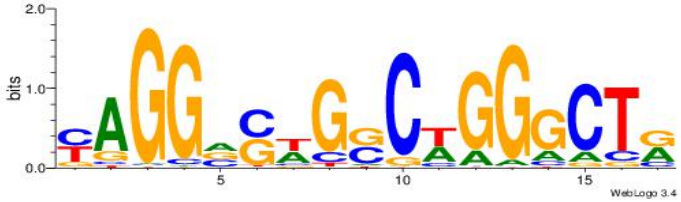


Dataset #: 1 Motif ID: 122 Motif name: C122

Original motif Consensus sequence: YAGCCCWGSCWSBCCTR



Reverse complement motif Consensus sequence: MAGGVSWGSCWGGGCTK



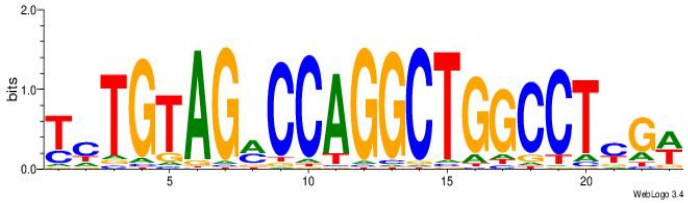
Best Matches for Motif ID 122 (Highest to Lowest)

Dataset #:	1
Motif ID:	5
Motif name:	C005
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	17
Similarity score:	0.0338286

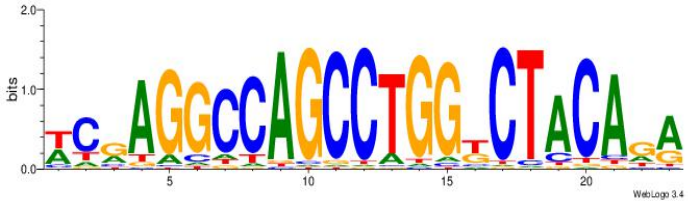
Alignment:

TCTGTAGMCCAGGCTGGCCTYGW
----YAGCCCWGSCWSBCCTR--

Original motif Consensus sequence: TCTGTAGMCCAGGCTGGCCTYGW



Reverse complement motif Consensus sequence: WCKAGGCCAGCCTGGYCTACAGA

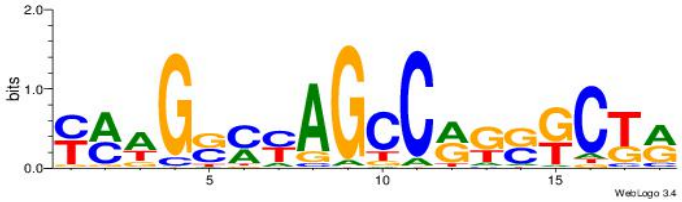


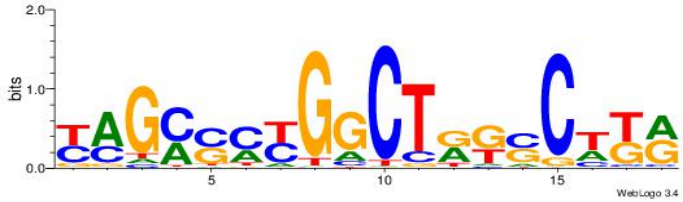
Dataset #:	1
Motif ID:	73
Motif name:	C073
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.0338756

Alignment:
KAGYSYKGGCTKRSCWYK
-YAGCCCWGSCWSBCCTR

Original motif Consensus sequence: YMWGSMYAGCCRKSKCTR

Reverse complement motif Consensus sequence: KAGYSYKGGCTKRSCWYK

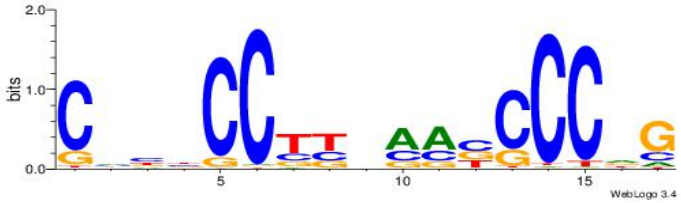




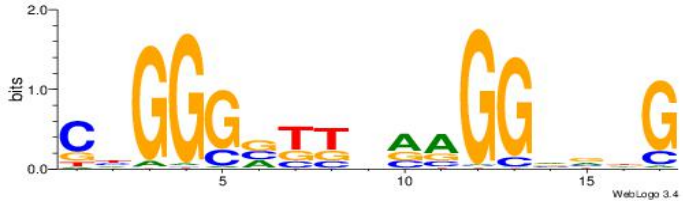
Dataset #:	1
Motif ID:	107
Motif name:	C107
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.0541557

Alignment:
CHBBCCTYBAABCCCDG
YAGCCCWGSCWSBCCTR

Original motif Consensus sequence: CHBBCCTYBAABCCCDG



Reverse complement motif Consensus sequence: CDGGGBTTVMAGGVBHG



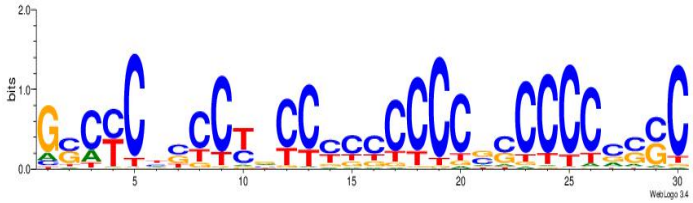
Dataset #:	1

Motif ID:	3
Motif name:	C003
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	17
Similarity score:	0.0606639

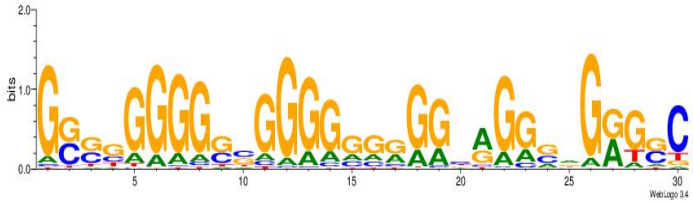
Alignment:

```
GSSGGGGGSSGGGGGGKGGVMGGSHGKGSC
----------MAGGVSWGSCWGGGCTK---
```

Original motif Consensus sequence:
GSCYCHSCCYVCCYCCCCCCSSCCCCCSSC



Reverse complement motif Consensus sequence:
GSSGGGGGSSGGGGGGKGGVMGGSHGKGSC

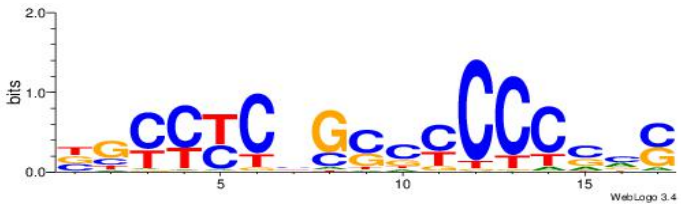


Dataset #:	1
Motif ID:	22
Motif name:	C022
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	17

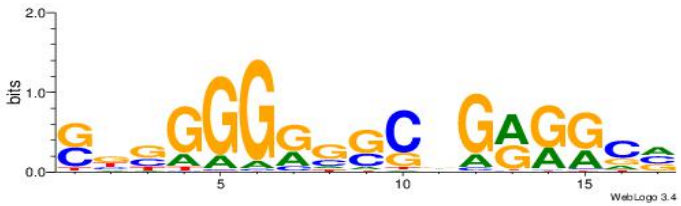
Similarity score: 0.0617615

Alignment:
BGCCYCBGSCYCCCSVS
YAGCCCWGSCWSBCCTR

Original motif Consensus sequence: BGCCYCBGSCYCCCSVS

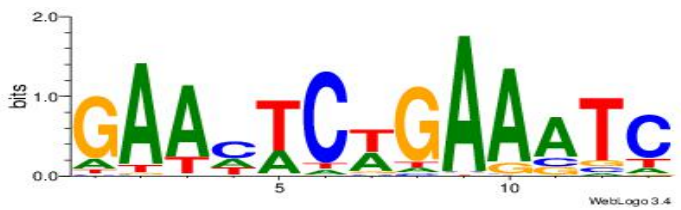


Reverse complement motif Consensus sequence: SVSGGGKGSCBGMGGCV

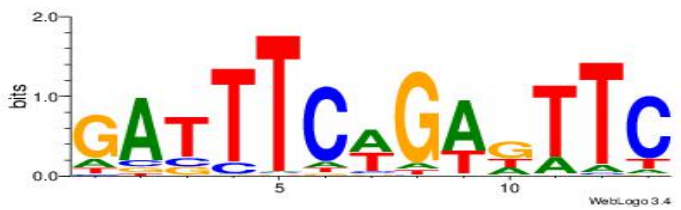


Dataset #: 1 Motif ID: 123 Motif name: C123

Original motif Consensus sequence: GAAMTCWGAAATC



Reverse complement motif Consensus sequence: GATTTCWGARTTC



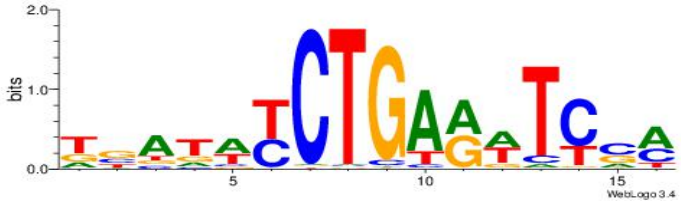
Best Matches for Motif ID 123 (Highest to Lowest)

Dataset #:	1
Motif ID:	111
Motif name:	C111
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement

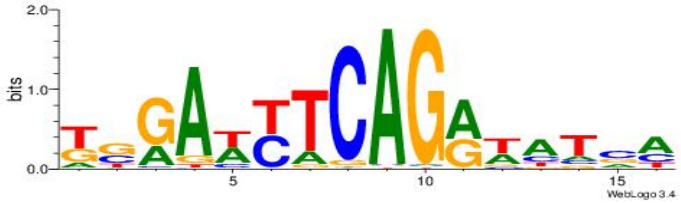
Direction:	Backward
Position number:	3
Number of overlap:	13
Similarity score:	0.0136956

Alignment:
YSGAWKTCAGMWATBA
-GAAMTCWGAAATC--

Original motif Consensus sequence: TBATWYCTGARWTCSM



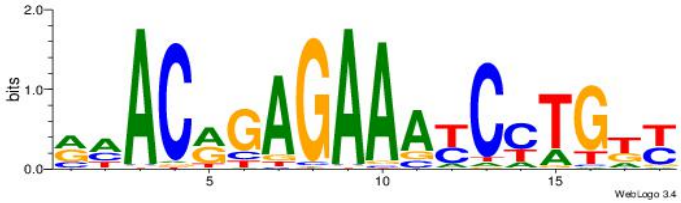
Reverse complement motif Consensus sequence: YSGAWKTCAGMWATBA



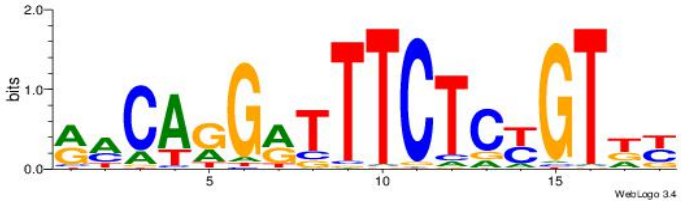
Dataset #:	1
Motif ID:	53
Motif name:	C053
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	13
Similarity score:	0.0237752

Alignment:
RMACRGAGAAAYCCTGKY
GAAMTCWGAAATC-----

Original motif Consensus sequence: RMACRGAGAAAYCCTGKY



Reverse complement motif Consensus sequence: MRCAGGMTTTCTCKGTYK

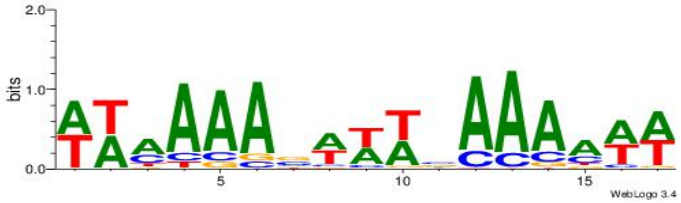


Dataset #:	1
Motif ID:	139
Motif name:	C139
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	13
Similarity score:	0.0400487

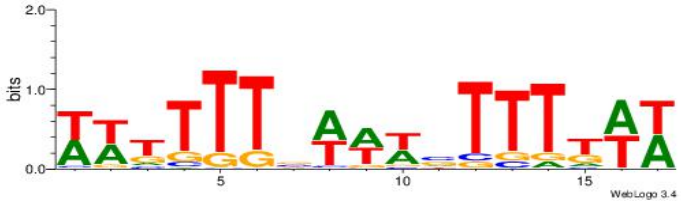
Alignment:

```
WWMAAABWWWVAAAAWW
---GAAMTCWGAAATC-
```

Original motif Consensus sequence: WWMAAABWWWVAAAAWW



Reverse complement motif Consensus sequence: WWTTTTVWWWBTTTYWW

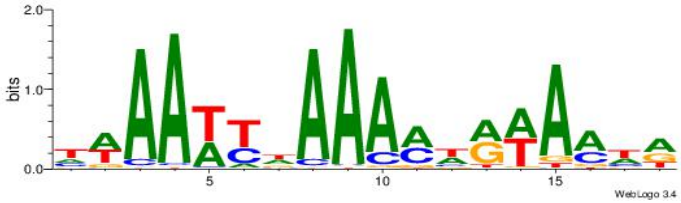


Dataset #:	1
Motif ID:	32
Motif name:	C032
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	13
Similarity score:	0.042121

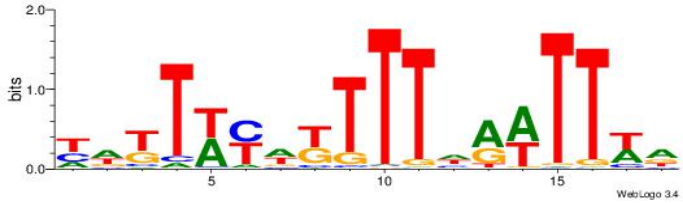
Alignment:

```
KWYTWKWYTTTDMWTTWH
-----GATTTCWGARTTC
```

Original motif Consensus sequence: HWAAWYDAAAMWRWAMWR



Reverse complement motif Consensus sequence: KWYTWKWYTTTDMWTTWH

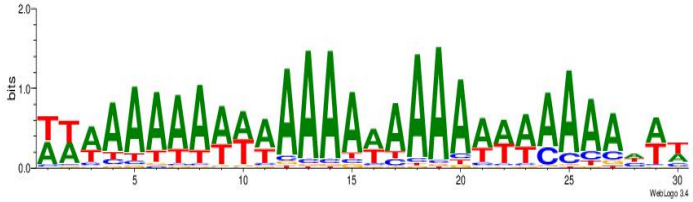


Dataset #:	1
Motif ID:	1
Motif name:	C001
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	14

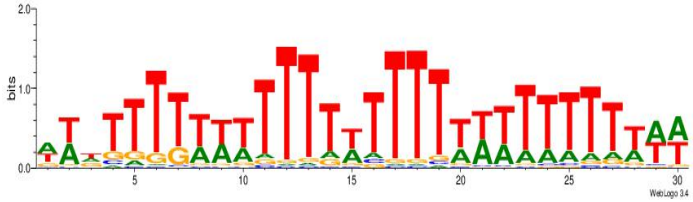
Number of overlap: 13
Similarity score: 0.0457951

Alignment:
WWWAAAAAWWAAAAAWAAAAAWWAAAAHWW
----GAAMTCWGAAATC----------

Original motif Consensus sequence:
WWWAAAAAWWAAAAAWAAAAAWWAAAAHWW

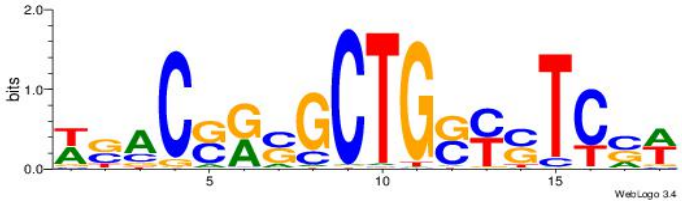


Reverse complement motif Consensus sequence:
WWHTTTTWWTTTTTWTTTTTWWTTTTTWWW

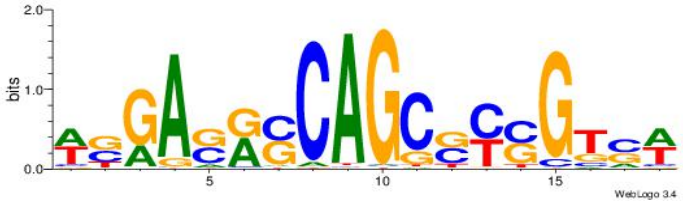


Dataset #: 1 Motif ID: 124 Motif name: C124

Original motif Consensus sequence: WSACSRSGCTGSYSTCSW



Reverse complement motif Consensus sequence:
WSGASKSCAGCSMSGTSW



Best Matches for Motif ID 124 (Highest to Lowest)

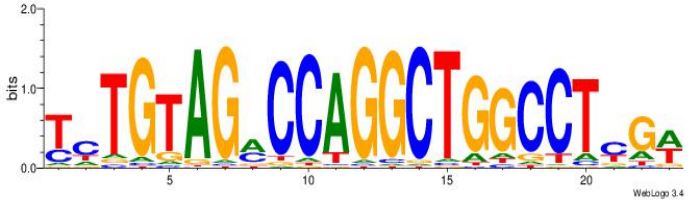
Dataset #: 1
Motif ID: 5
Motif name: C005

Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	18
Similarity score:	0.0124377

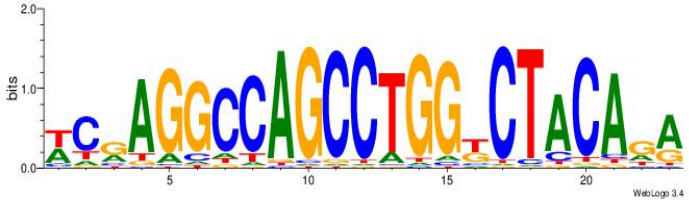
Alignment:

```
TCTGTAGMCCAGGCTGGCCTYGW
-----WSACSRSGCTGSYSTCSW
```

Original motif Consensus sequence: TCTGTAGMCCAGGCTGGCCTYGW



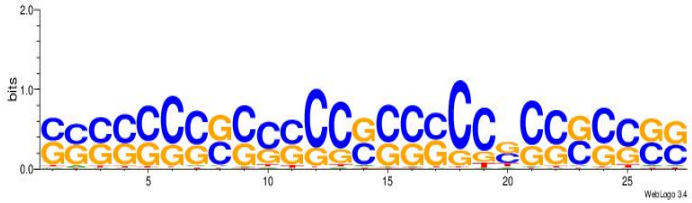
Reverse complement motif Consensus sequence: WCKAGGCCAGCCTGGYCTACAGA



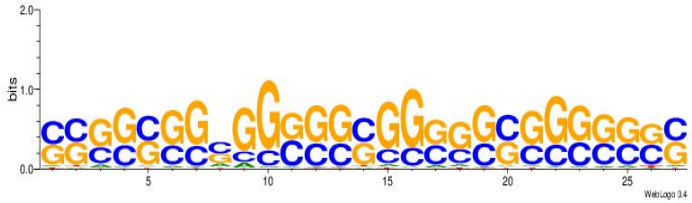
Dataset #:	1
Motif ID:	4
Motif name:	C004
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	10
Number of overlap:	18
Similarity score:	0.0440706

Alignment:
SSSSSCSSSSSCCSSSSCCSCSSSSSS
---------WSACSRSGCTGSYSTCSW

Original motif Consensus sequence:
SSSSSCSSSSSCCSSSSCCSCSSSSSS



Reverse complement motif Consensus sequence:
SSSSSSGSGGSSSSGGSSSSSGSSSSS

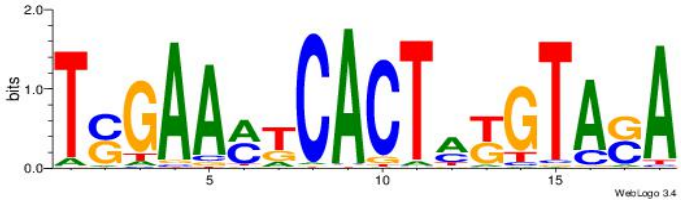


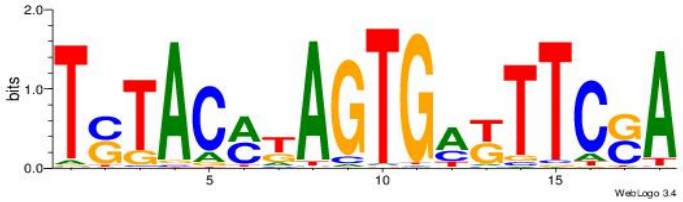
Dataset #:	1
Motif ID:	47
Motif name:	C047
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.0480396

Alignment:
TSGAAMTCACTMKGTASA
WSGASKSCAGCSMSGTSW

Original motif Consensus sequence: TSGAAMTCACTMKGTASA

Reverse complement motif Consensus sequence:
TSTACRYAGTGAYTTCSA

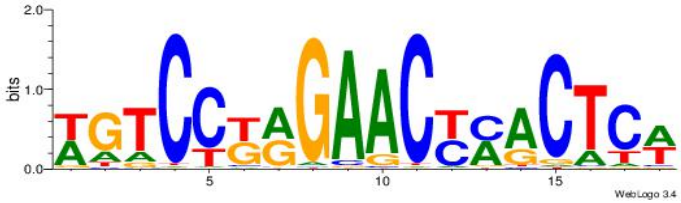




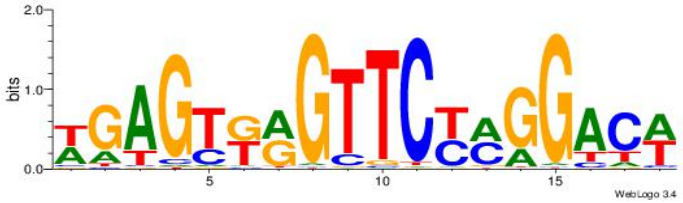
Dataset #:	1
Motif ID:	42
Motif name:	C042
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.0485766

Alignment:
WGAGTRMGTTCKRGGACW
WSACSRSGCTGSYSTCSW

Original motif Consensus sequence: WGTCCKRGAACYMACTCW



Reverse complement motif Consensus sequence:
WGAGTRMGTTCKRGGACW

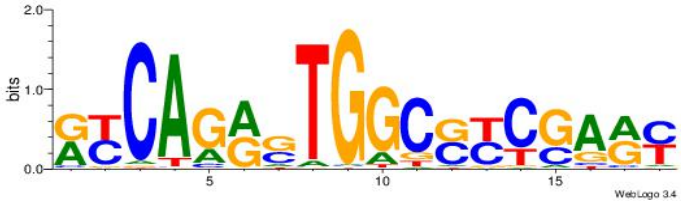


Dataset #:	1

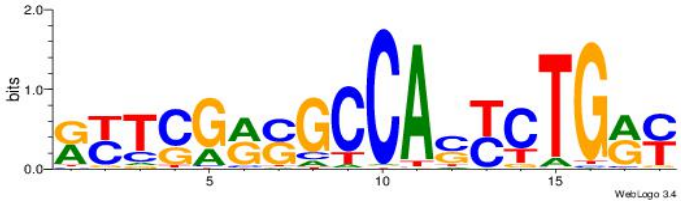
Motif ID:	92
Motif name:	C092
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.0498144

Alignment:
RYCAGRSTGGCSYCGARY
WSGASKSCAGCSMSGTSW

Original motif Consensus sequence: RYCAGRSTGGCSYCGARY

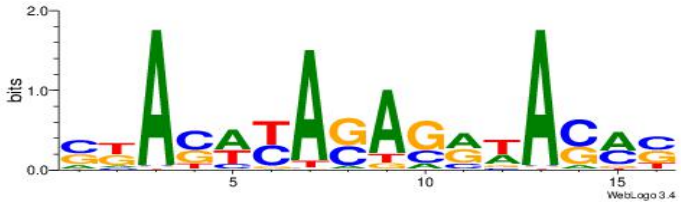


Reverse complement motif Consensus sequence: KKTCGMSGCCASKCTGMM

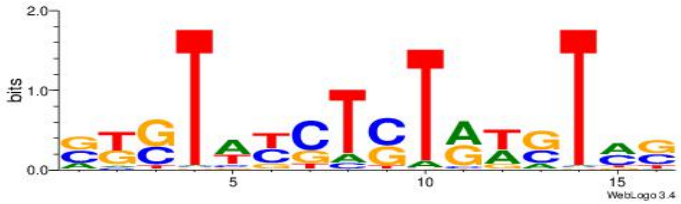


Dataset #: 1 Motif ID: 125 Motif name: C125

Original motif Consensus sequence: SKASWYASAGRWASMS



Reverse complement motif Consensus sequence: SYSTWKCTSTMWSTRS



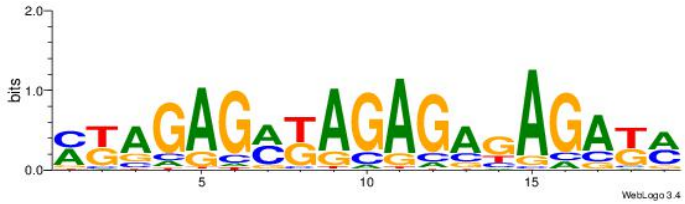
Best Matches for Motif ID 125 (Highest to Lowest)

Dataset #:	1
Motif ID:	12
Motif name:	C012
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	16
Similarity score:	0.0230755

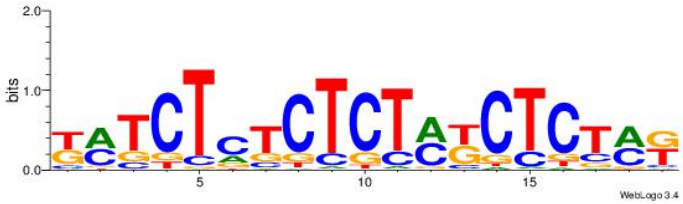
Alignment:

```
MKAGAGMKAGAGAGAGAKM
--SKASWYASAGRWASMS-
```

Original motif Consensus sequence: MKAGAGMKAGAGAGAGAKM



Reverse complement motif Consensus sequence: YRTCTCTCTCTRYCTCTRR

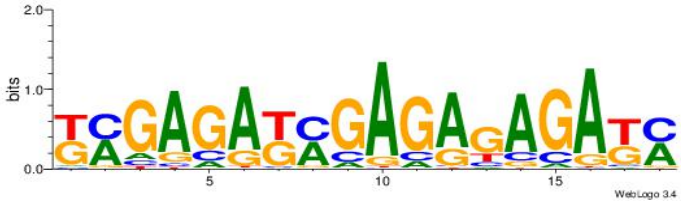


Dataset #:	1
Motif ID:	11
Motif name:	C011
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif

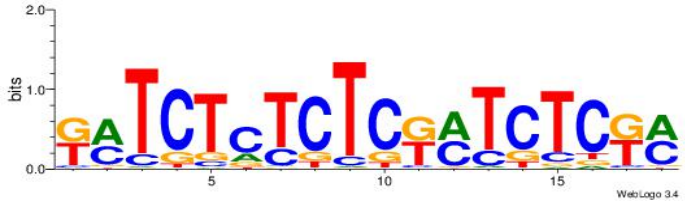
Direction:	Backward
Position number:	2
Number of overlap:	16
Similarity score:	0.0308935

Alignment:
KMGAGAKMGAGAGAGAKM
-SKASWYASAGRWASMS-

Original motif Consensus sequence: KMGAGAKMGAGAGAGAKM



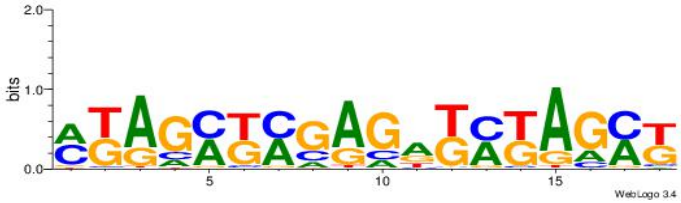
Reverse complement motif Consensus sequence: RRTCTCTCTCRRTCTCRR



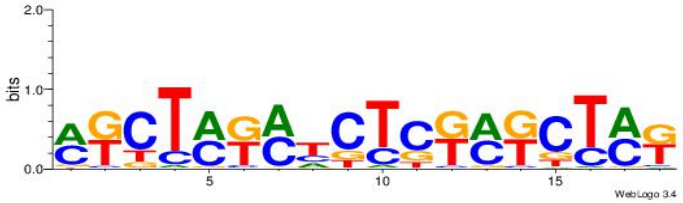
Dataset #:	1
Motif ID:	36
Motif name:	C036
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	16
Similarity score:	0.0309585

Alignment:
MKAGMKMGAGAKMKAGMK
SKASWYASAGRWASMS--

Original motif Consensus sequence: MKAGMKMGAGAKMKAGMK



Reverse complement motif Consensus sequence: RRCTRRRTCTCRRRCTRY

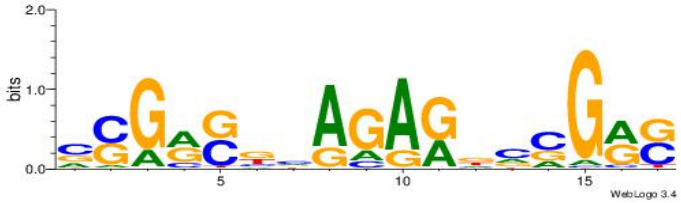


Dataset #:	1
Motif ID:	85
Motif name:	C085
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	16
Similarity score:	0.03238

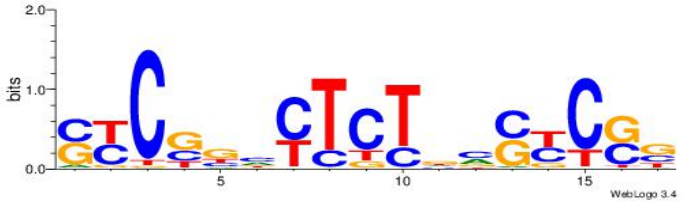
Alignment:

```
VSGRSBHAGARDVSGRS
-SKASWYASAGRWASMS
```

Original motif Consensus sequence: VSGRSBHAGARDVSGRS



Reverse complement motif Consensus sequence: SKCSVHMTCTDBSKCSV

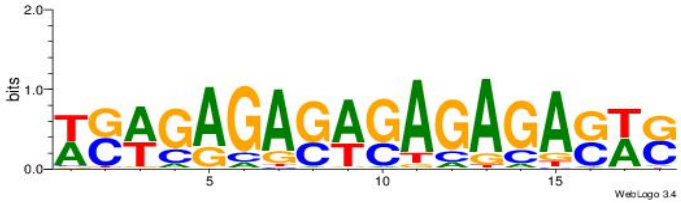


Dataset #:	1
Motif ID:	17
Motif name:	C017
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	16
Similarity score:	0.0332023

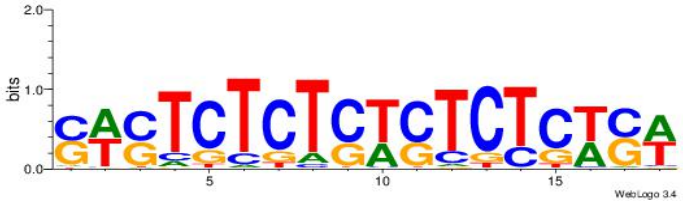
Alignment:

```
WSWGAGASWSAGAGASWS
--SKASWYASAGRWASMS
```

Original motif Consensus sequence: WSWGAGASWSAGAGASWS



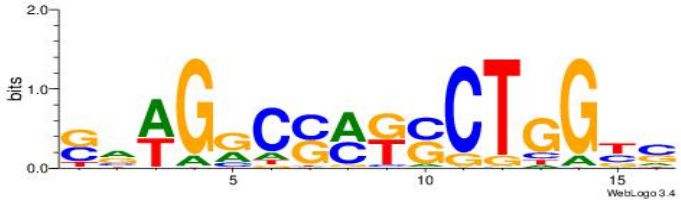
Reverse complement motif Consensus sequence: SWSTCTCTSWSTCTCWSW

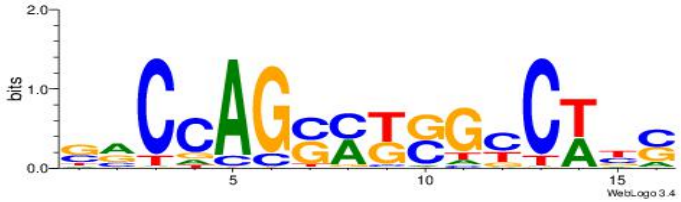


Dataset #: 1 Motif ID: 126 Motif name: C126

Original motif Consensus sequence: SVWGRCSMKSCTGGYS

Reverse complement motif Consensus sequence: SMCCAGSYYSGMCWBS





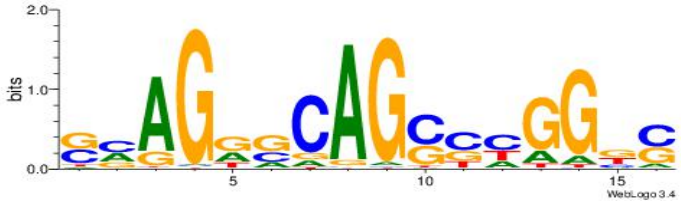
Best Matches for Motif ID 126 (Highest to Lowest)

Dataset #:	1
Motif ID:	39
Motif name:	C039
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	16
Similarity score:	0.0111025

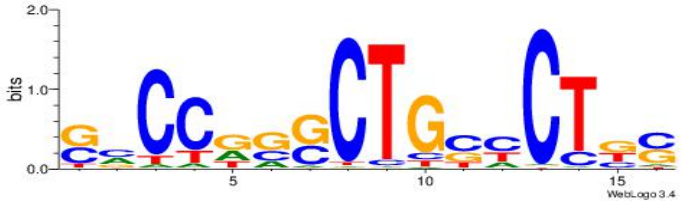
Alignment:

SMAGRSCAGSSYGGBS
SVWGRCSMKSCTGGYS

Original motif Consensus sequence: SMAGRSCAGSSYGGBS



Reverse complement motif Consensus sequence: SBCCKSSCTGSMCTRS

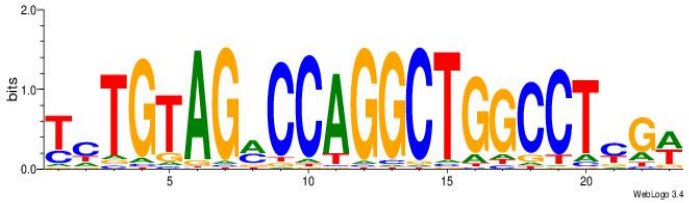


Dataset #:	1
Motif ID:	5
Motif name:	C005
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	7
Number of overlap:	16
Similarity score:	0.0123408

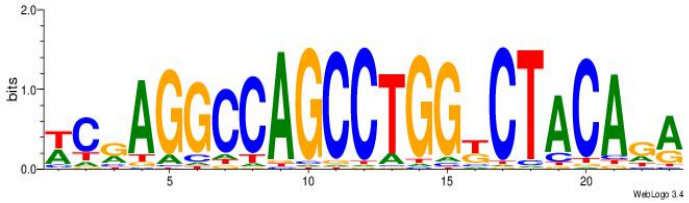
Alignment:

```
WCKAGGCCAGCCTGGYCTACAGA
------SVWGRCSMKSCTGGYS-
```

Original motif Consensus sequence: TCTGTAGMCCAGGCTGGCCTYGW



Reverse complement motif Consensus sequence: WCKAGGCCAGCCTGGYCTACAGA

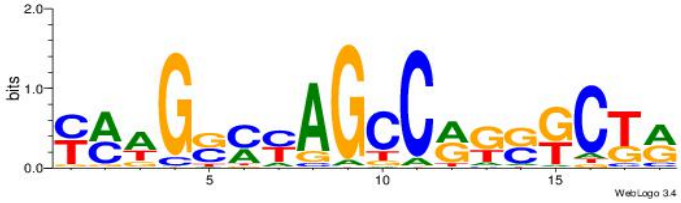


Dataset #:	1
Motif ID:	73
Motif name:	C073
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3

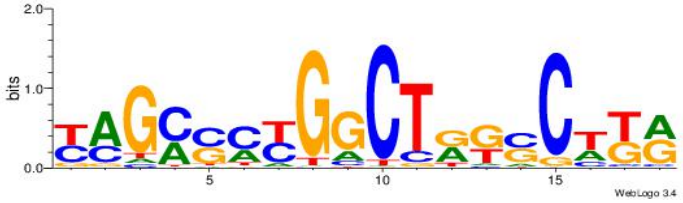
Number of overlap: 16
Similarity score: 0.0292616

Alignment:
YMWGSMYAGCCRKSKCTR
SVWGRCSMKSCTGGYS--

Original motif Consensus sequence: YMWGSMYAGCCRKSKCTR



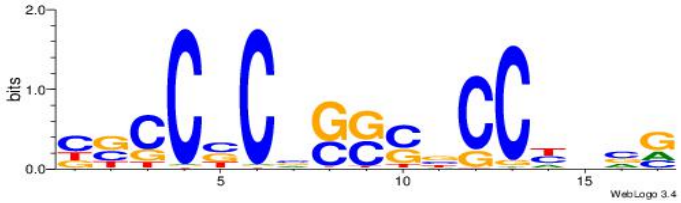
Reverse complement motif Consensus sequence: KAGYSYKGGCTKRSCWYK



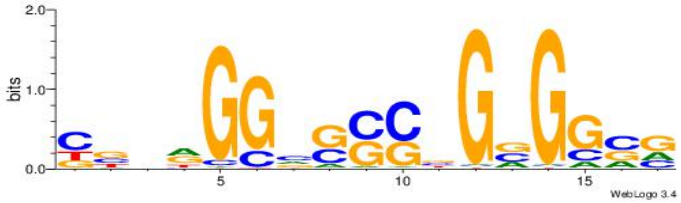
Dataset #: 1
Motif ID: 140
Motif name: C140
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 16
Similarity score: 0.0326058

Alignment:
CVDMGGBSSSVGBGGSB
-SVWGRCSMKSCTGGYS

Original motif Consensus sequence: BSCCBCVSSSBCCYHVG



Reverse complement motif Consensus sequence: CVDMGGBSSSVGBGGSB

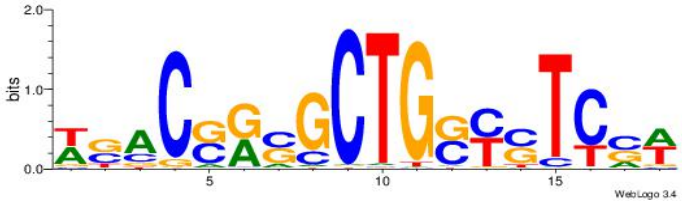


Dataset #:	1
Motif ID:	124
Motif name:	C124
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	16
Similarity score:	0.0330425

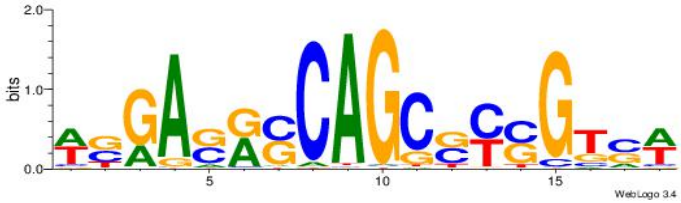
Alignment:

```
WSGASKSCAGCSMSGTSW
-SVWGRCSMKSCTGGYS-
```

Original motif Consensus sequence: WSACSRSGCTGSYSTCSW

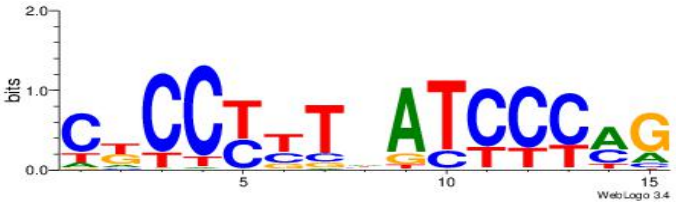


Reverse complement motif Consensus sequence: WSGASKSCAGCSMSGTSW



Dataset #: 1 Motif ID: 127 Motif name: C127

Original motif Consensus sequence: CKCCYYTHATCCCMG



Reverse complement motif Consensus sequence: CYGGGATHAMMGGRG

Best Matches for Motif ID 127 (Highest to Lowest)

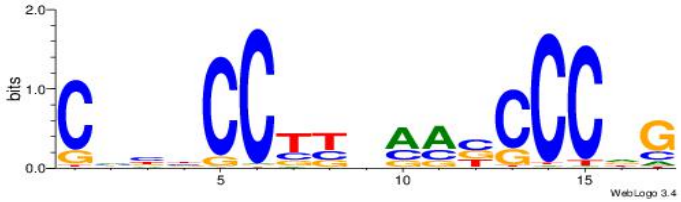
Dataset #:	1
Motif ID:	107
Motif name:	C107
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	15
Similarity score:	0.0152308

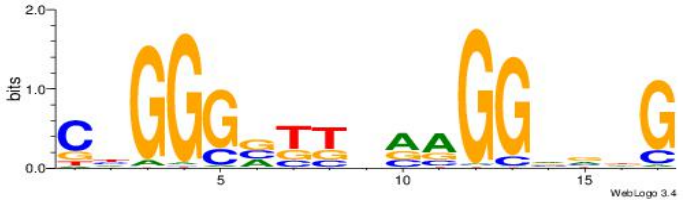
Alignment:

```
CHBBCCTYBAABCCCDG
--CKCCYYTHATCCCMG
```

Original motif Consensus sequence: CHBBCCTYBAABCCCDG

Reverse complement motif Consensus sequence: CDGGGBTTVMAGGVBHG

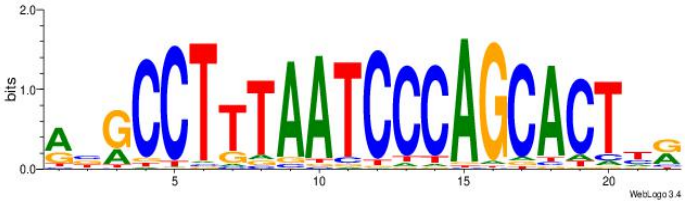




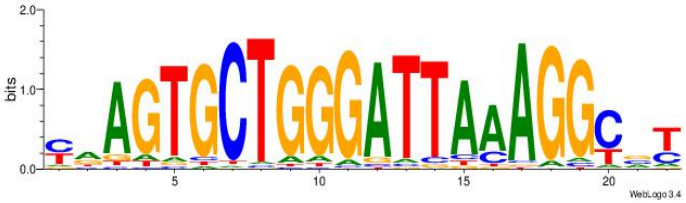
Dataset #: 1
Motif ID: 9
Motif name: C009
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 15
Similarity score: 0.0175228

Alignment:
ABGCCTTTAATCCCAGCACTHR
-CKCCYYTHATCCCMG------

Original motif Consensus sequence: ABGCCTTTAATCCCAGCACTHR



Reverse complement motif Consensus sequence: MHAGTGCTGGGATTAAAGGCBT



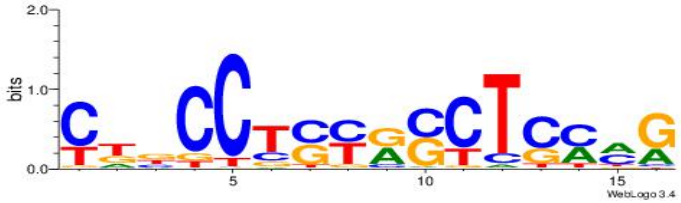
Dataset #: 1

Motif ID:	83
Motif name:	C083
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	15
Similarity score:	0.039129

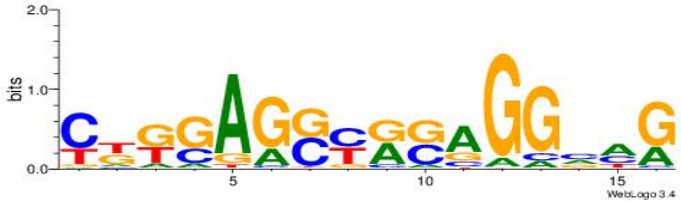
Alignment:

```
CKBCCTSYRSCTCMMG
-CKCCYYTHATCCCMG
```

Original motif Consensus sequence: CKBCCTSYRSCTCMMG



Reverse complement motif Consensus sequence: CYRGAGSMKSAGGBRG

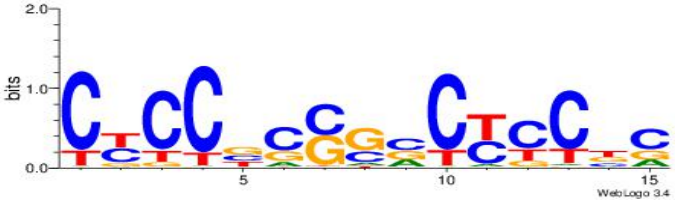


Dataset #:	1
Motif ID:	58
Motif name:	C058
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	15

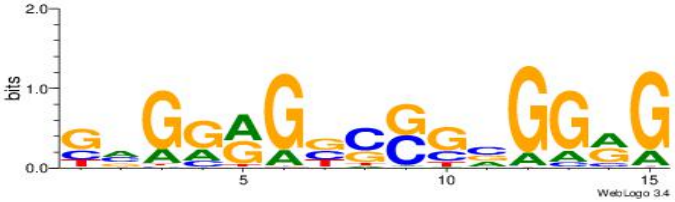
Similarity score: 0.0442699

Alignment:
CYCCBCSGVCYCCBC
CKCCYYTHATCCCMG

Original motif Consensus sequence: CYCCBCSGVCYCCBC



Reverse complement motif Consensus sequence: GVGGMGVCSGBGGMG

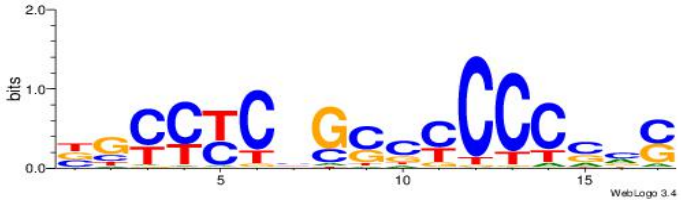


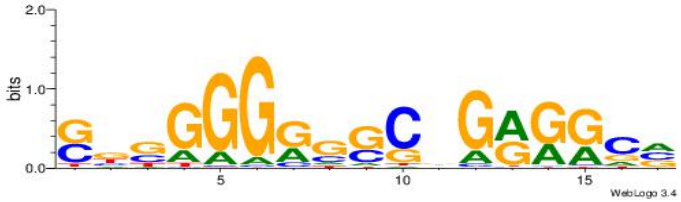
Dataset #: 1
Motif ID: 22
Motif name: C022
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 15
Similarity score: 0.0459854

Alignment:
BGCCYCBGSCYCCCSVS
CKCCYYTHATCCCMG--

Original motif Consensus sequence: BGCCYCBGSCYCCCSVS

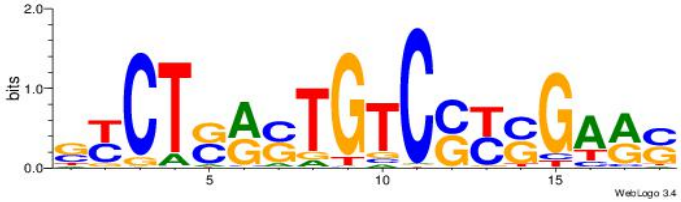
Reverse complement motif Consensus sequence: SVSGGGKGSCBGMGGCV



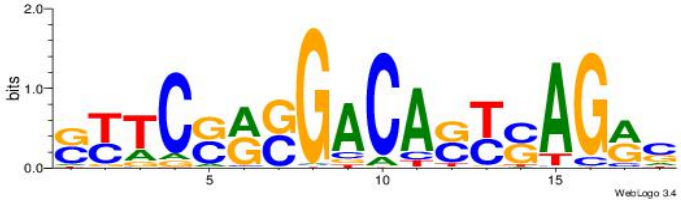


Dataset #: 1 Motif ID: 128 Motif name: C128

Original motif Consensus sequence: SYCTSRSTGTCSYSGARS



Reverse complement motif Consensus sequence: SKTCSMSGACASKSAGMS



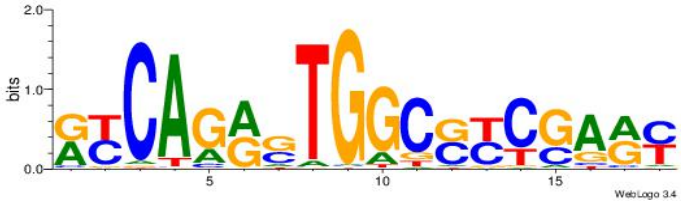
Best Matches for Motif ID 128 (Highest to Lowest)

Dataset #:	1
Motif ID:	92
Motif name:	C092
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.00330143

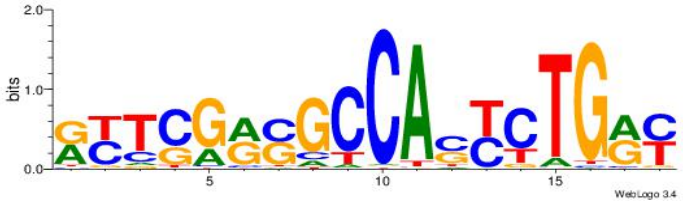
Alignment:

KKTCGMSGCCASKCTGMM
SKTCSMSGACASKSAGMS

Original motif Consensus sequence: RYCAGRSTGGCSYCGARY



Reverse complement motif Consensus sequence: KKTCGMSGCCASKCTGMM

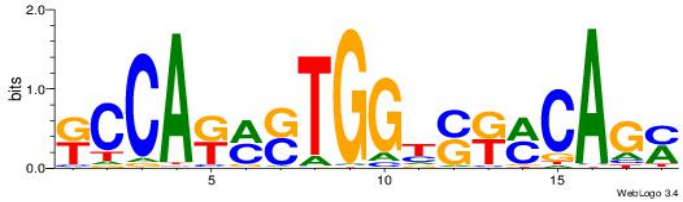


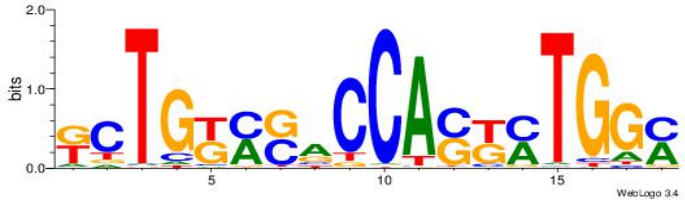
Dataset #:	1
Motif ID:	95
Motif name:	C095
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.0392957

Alignment:
KCCAKMSTGGTSKMCAGM
SYCTSRSTGTCSYSGARS

Original motif Consensus sequence: KCCAKMSTGGTSKMCAGM

Reverse complement motif Consensus sequence: RCTGYYSACCASYYTGGY



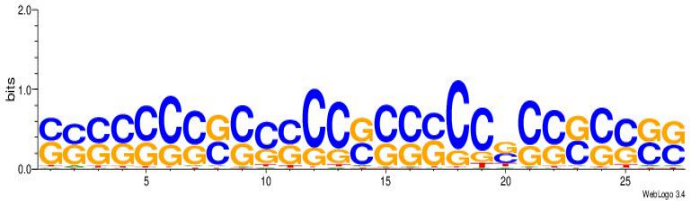


Dataset #:	1
Motif ID:	4
Motif name:	C004
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	10
Number of overlap:	18
Similarity score:	0.0466725

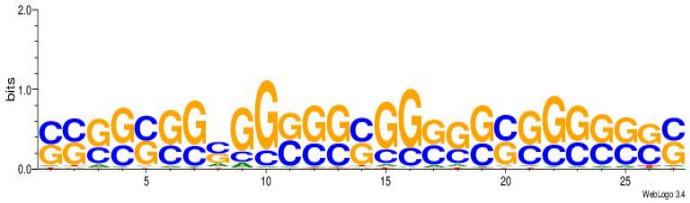
Alignment:

```
SSSSSSGSGGSSSSGGSSSSSGSSSSS
---------SYCTSRSTGTCSYSGARS
```

Original motif Consensus sequence:
SSSSSCSSSSSCCSSSSCCSCSSSSSS



Reverse complement motif Consensus sequence:
SSSSSSGSGGSSSSGGSSSSSGSSSSS



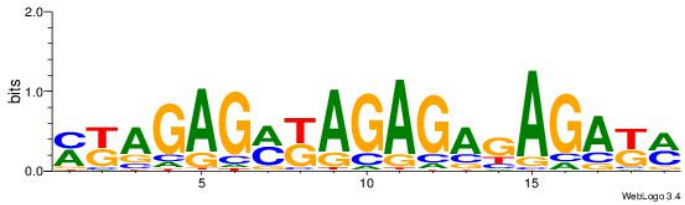
Dataset #:	1

Motif ID:	12
Motif name:	C012
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	18
Similarity score:	0.048063

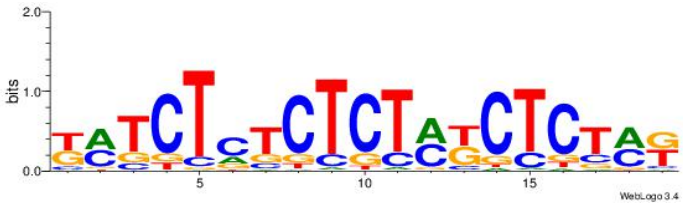
Alignment:

```
MKAGAGMKAGAGAGAGAKM
-SKTCSMSGACASKSAGMS
```

Original motif Consensus sequence: MKAGAGMKAGAGAGAGAKM



Reverse complement motif Consensus sequence: YRTCTCTCTCTRYCTCTRR

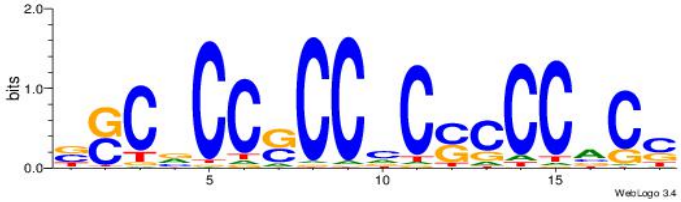


Dataset #:	1
Motif ID:	20
Motif name:	C020
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	18

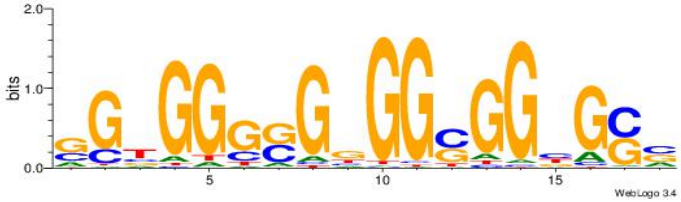
Similarity score: 0.0508385

Alignment:
SGTGGGSGVGGSGGVGSB
SKTCSMSGACASKSAGMS

Original motif Consensus sequence: BSCVCCSCCVCSCCCACS

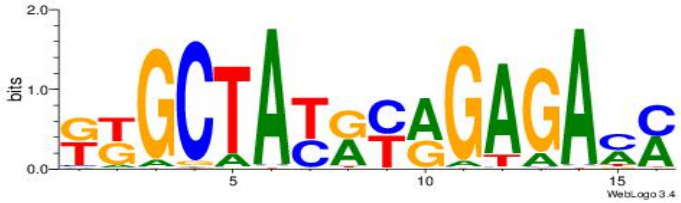


Reverse complement motif Consensus sequence:
SGTGGGSGVGGSGGVGSB

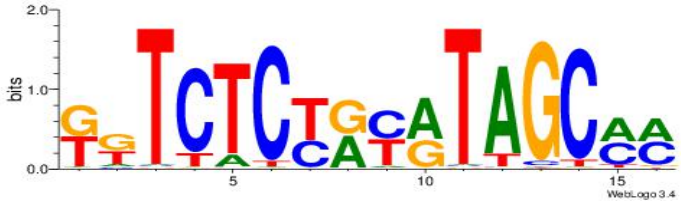


Dataset #: 1 Motif ID: 129 Motif name: C129

Original motif Consensus sequence: KKGCTAYRYRGAGAMM



Reverse complement motif Consensus sequence:
RRTCTCKKMMTAGCRY



Best Matches for Motif ID 129 (Highest to Lowest)

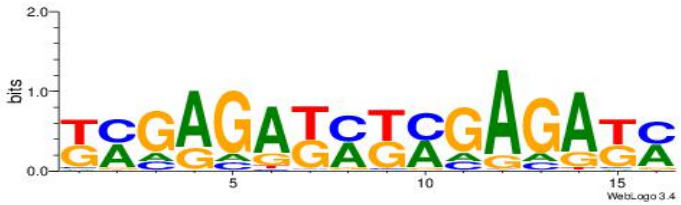
Dataset #:	1
Motif ID:	26
Motif name:	C026
Matching format of first motif:	Reverse Complement

Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	16
Similarity score:	0.0373267

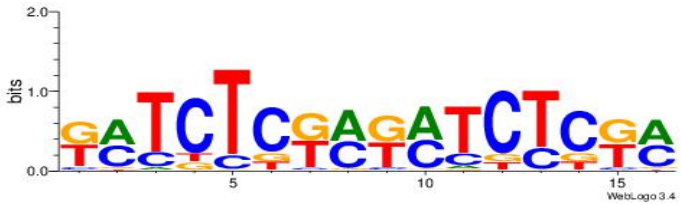
Alignment:

```
RRTCTCRRRRTCTCRR
RRTCTCKKMMTAGCRY
```

Original motif Consensus sequence: KMGAGAKMKMGAGAKM



Reverse complement motif Consensus sequence: RRTCTCRRRRTCTCRR

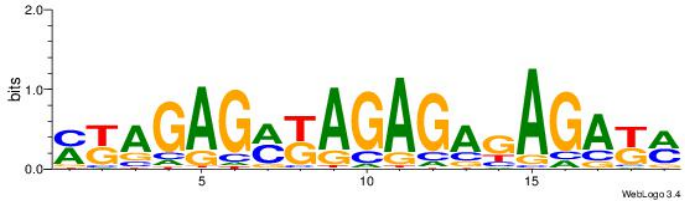


Dataset #:	1
Motif ID:	12
Motif name:	C012
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	4
Number of overlap:	16
Similarity score:	0.0468494

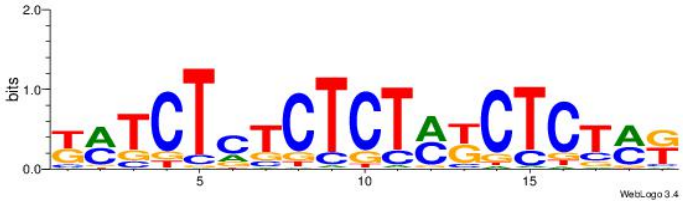
Alignment:

MKAGAGMKAGAGAGAGAKM
---KKGCTAYRYRGAGAMM

Original motif Consensus sequence: MKAGAGMKAGAGAGAGAKM



Reverse complement motif Consensus sequence: YRTCTCTCTCTRYCTCTRR

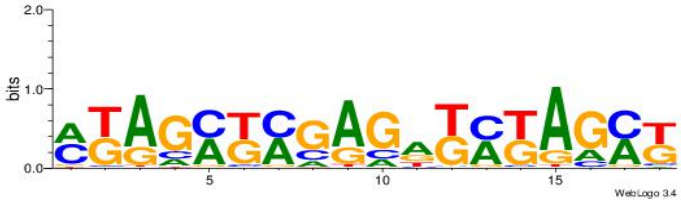


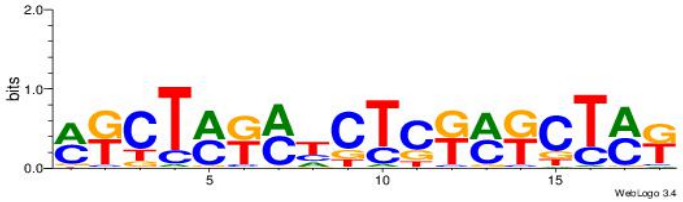
Dataset #:	1
Motif ID:	36
Motif name:	C036
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	16
Similarity score:	0.0517095

Alignment:
MKAGMKMGAGAKMKAGMK
-KKGCTAYRYRGAGAMM-

Original motif Consensus sequence: MKAGMKMGAGAKMKAGMK

Reverse complement motif Consensus sequence: RRCTRRRTCTCRRRCTRY



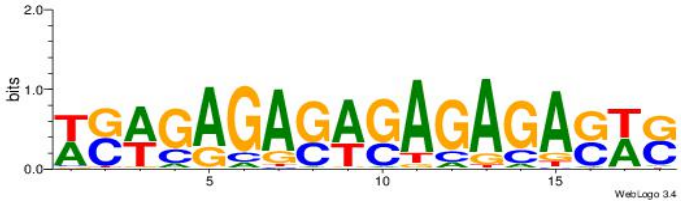


Dataset #:	1
Motif ID:	17
Motif name:	C017
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	16
Similarity score:	0.0523389

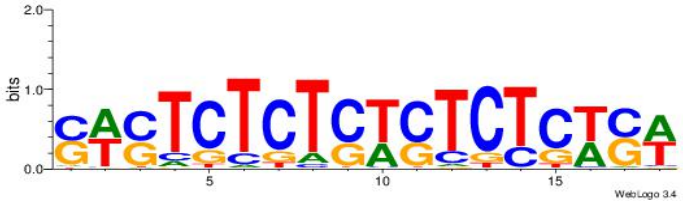
Alignment:

```
SWSTCTCTSWSTCTCWSW
-RRTCTCKKMMTAGCRY-
```

Original motif Consensus sequence: WSWGAGASWSAGAGASWS



Reverse complement motif Consensus sequence: SWSTCTCTSWSTCTCWSW



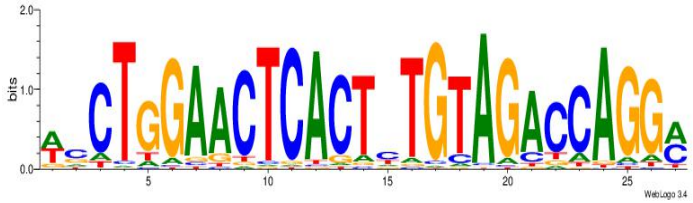
Dataset #: 1

Motif ID:	13
Motif name:	C013
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	16
Similarity score:	0.0523654

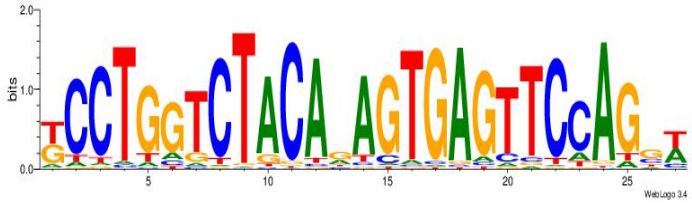
Alignment:

```
WVCTGGAACTCACTHTGTAGACCAGGM
----RRTCTCKKMMTAGCRY-------
```

Original motif Consensus sequence:
WVCTGGAACTCACTHTGTAGACCAGGM

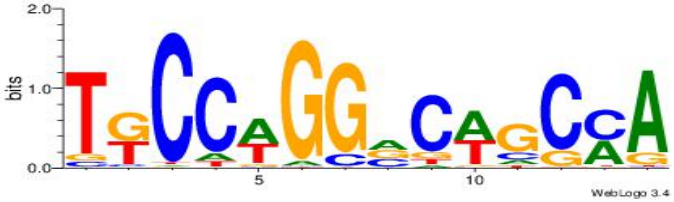


Reverse complement motif Consensus sequence:
YCCTGGTCTACADAGTGAGTTCCAGVW

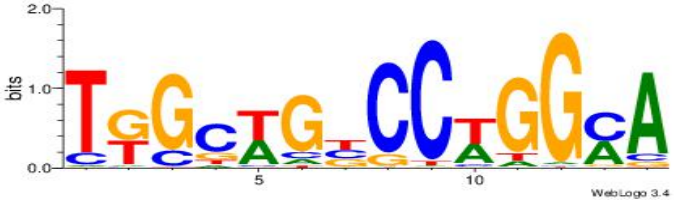


Dataset #: 1 Motif ID: 130 Motif name: C130

Original motif Consensus sequence: TKCCWGGVCWGCMA



Reverse complement motif Consensus sequence: TRGCWGBCCWGG



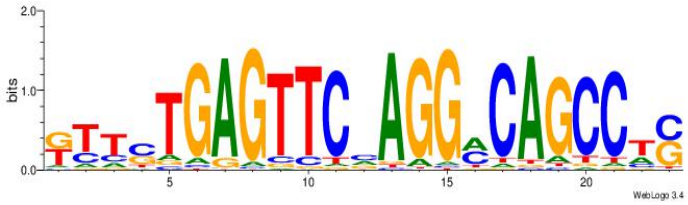
Best Matches for Motif ID 130 (Highest to Lowest)

Dataset #:	1
Motif ID:	7
Motif name:	C007
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.00579236

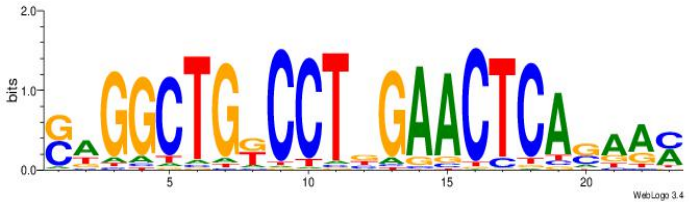
Alignment:

```
KTTSTGAGTTCVAGGMCAGCCTS
--------TKCCWGGVCWGCMA-
```

Original motif Consensus sequence: KTTSTGAGTTCVAGGMCAGCCTS



Reverse complement motif Consensus sequence: SAGGCTGYCCTVGAACTCASAAY

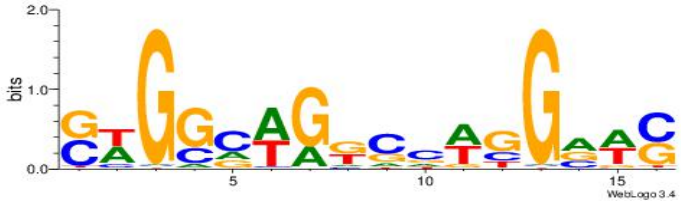


Dataset #:	1
Motif ID:	151
Motif name:	C151
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement

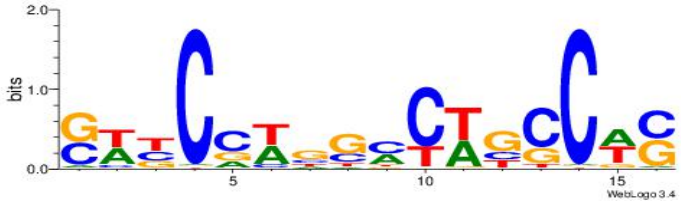
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.00882638

Alignment:
SWBCCWGGYCWGCCWS
-TKCCWGGVCWGCMA-

Original motif Consensus sequence: SWGGCWGKCCWGGVWS



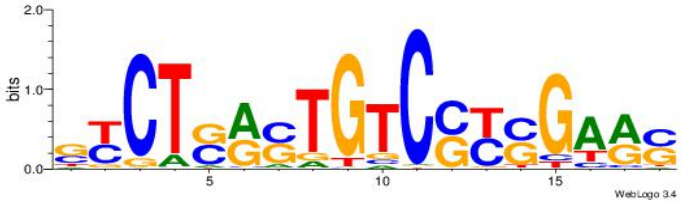
Reverse complement motif Consensus sequence:
SWBCCWGGYCWGCCWS



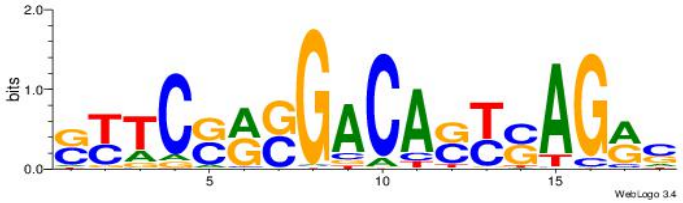
Dataset #:	1
Motif ID:	128
Motif name:	C128
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	14
Similarity score:	0.0249438

Alignment:
SKTCSMSGACASKSAGMS
---TKCCWGGVCWGCMA-

Original motif Consensus sequence: SYCTSRSTGTCSYSGARS



Reverse complement motif Consensus sequence: SKTCSMSGACASKSAGMS



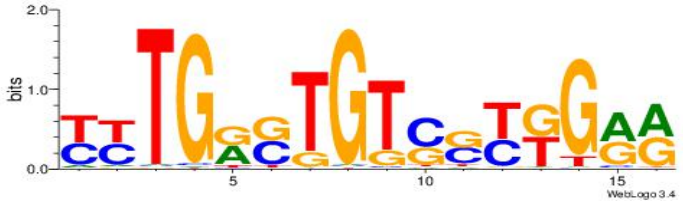
Dataset #:	1
Motif ID:	150
Motif name:	C150
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.0273359

Alignment:

```
YYCMRSSACASYCARR
TKCCWGGVCWGCMA--
```

Original motif Consensus sequence: YYCMRSSACASYCARR

Reverse complement motif Consensus sequence: KKTGKSTGTSSKRGMM

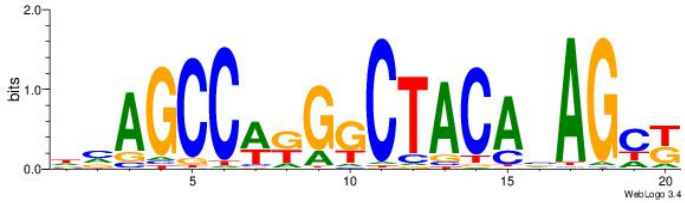


Dataset #:	1
Motif ID:	15
Motif name:	C015
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	14
Similarity score:	0.0315733

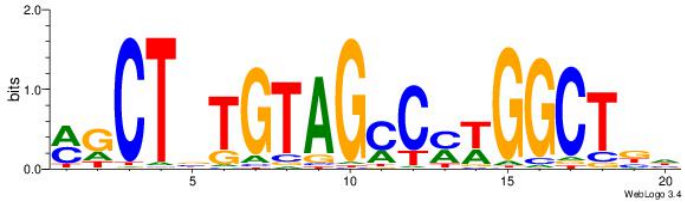
Alignment:

```
DVAGCCWKGGCTACAVAGCK
--TKCCWGGVCWGCMA----
```

Original motif Consensus sequence: DVAGCCWKGGCTACAVAGCK



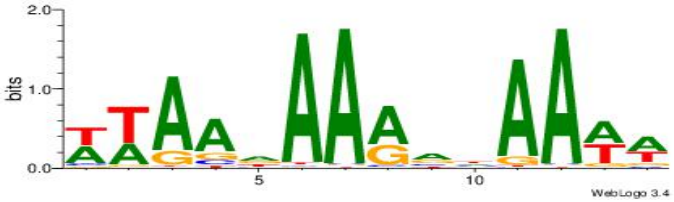
Reverse complement motif Consensus sequence: RGCTVTGTAGCCYWGGCTVD

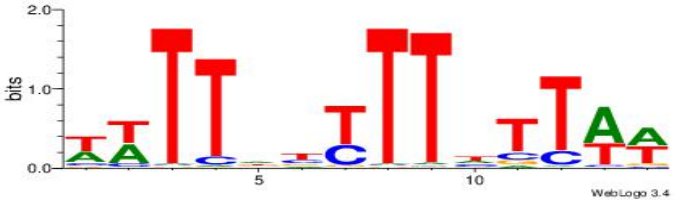


Dataset #: 1 Motif ID: 131 Motif name: C131

Original motif Consensus sequence: WWAADAARVHAAWW

Reverse complement motif Consensus sequence: WWTTHBKTTDTTW





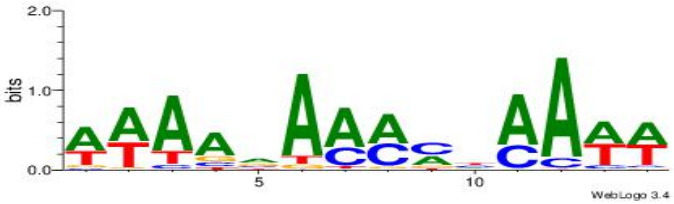
Best Matches for Motif ID 131 (Highest to Lowest)

Dataset #:	1
Motif ID:	80
Motif name:	C080
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.0182718

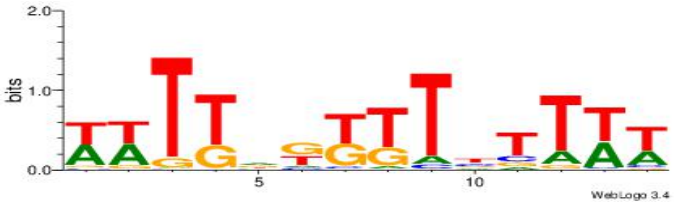
Alignment:

```
WWAAVAAMMHAAWW
WWAADAARVHAAWW
```

Original motif Consensus sequence: WWAAVAAMMHAAWW



Reverse complement motif Consensus sequence: WWTTHRYTTBTTW



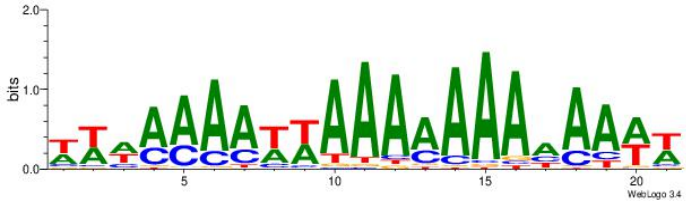
Dataset #: 1

Motif ID:	10
Motif name:	C010
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	8
Number of overlap:	14
Similarity score:	0.0270118

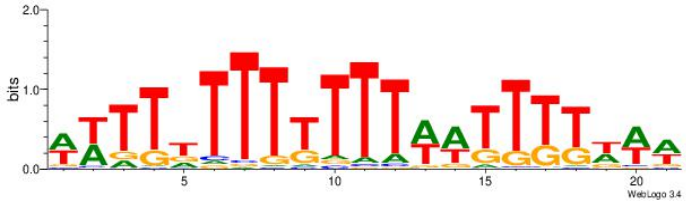
Alignment:

```
WWTTTTTTTTTTWWTTTTWWW
WWTTHBKTTDTTWW-------
```

Original motif Consensus sequence: WWWAAAAWWAAAAAAAAAWW



Reverse complement motif Consensus sequence: WWTTTTTTTTTTWWTTTTWWW

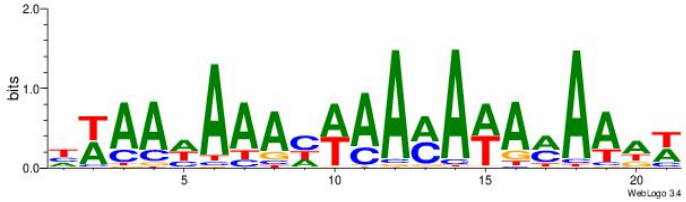


Dataset #:	1
Motif ID:	16
Motif name:	C016
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	14

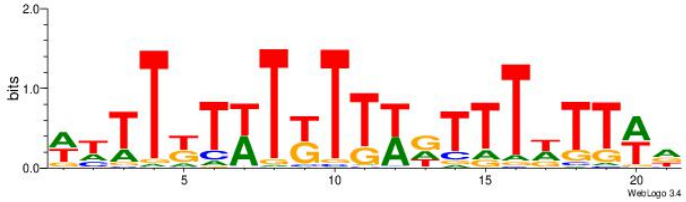
Similarity score: 0.0308734

Alignment:
WWTTYTWTYTTWDTTTWTTWH
-------WWTTHBKTTDTTWW

Original motif Consensus sequence: HWAAWAAAHWAAMAWAMAAWW



Reverse complement motif Consensus sequence: WWTTYTWTYTTWDTTTWTTWH

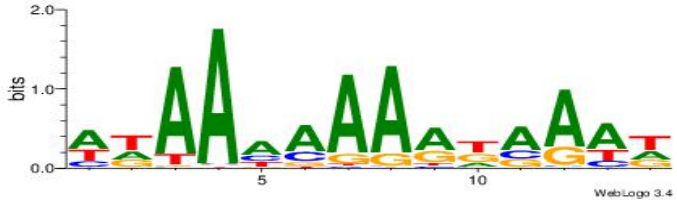


Dataset #: 1
Motif ID: 67
Motif name: C067
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 14
Similarity score: 0.0318891

Alignment:
WDAAAAAARKAAAD
WWAADAARVHAAWW

Original motif Consensus sequence: WDAAAAAARKAAAD

Reverse complement motif Consensus sequence: DTTTRKTTTTTTDW

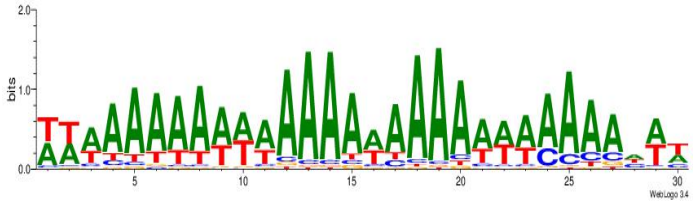


Dataset #:	1
Motif ID:	1
Motif name:	C001
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	14
Similarity score:	0.032459

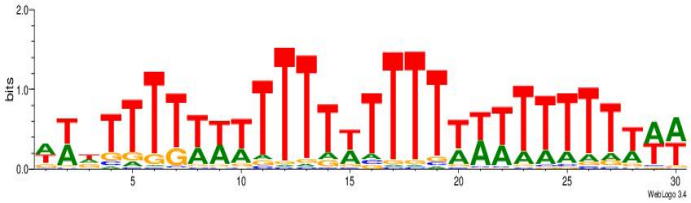
Alignment:

```
WWWAAAAAWWAAAAAWAAAAAWWAAAAHWW
-WWAADAARVHAAWW---------------
```

Original motif Consensus sequence:
WWWAAAAAWWAAAAAWAAAAAWWAAAAHWW

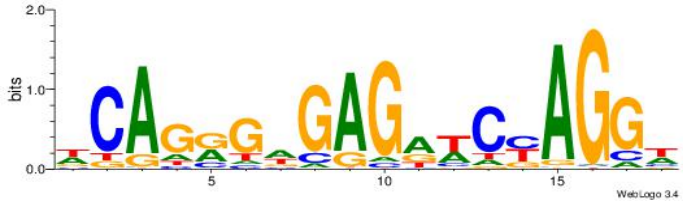


Reverse complement motif Consensus sequence:
WWHTTTTWWTTTTTWTTTTTWWTTTTTWWW

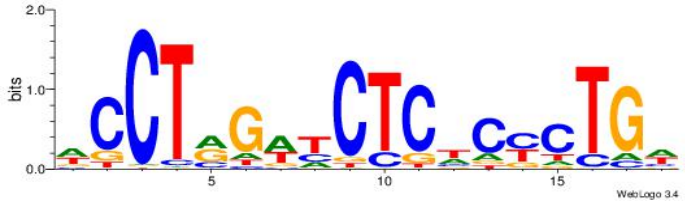


Dataset #: 1 Motif ID: 132 Motif name: C132

Original motif Consensus sequence: WCAGRGWGAGAWCYAGGW



Reverse complement motif Consensus sequence: WCCTKGWTCTCWCMCTGW



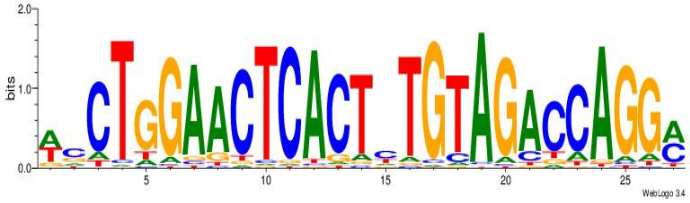
Best Matches for Motif ID 132 (Highest to Lowest)

Dataset #:	1
Motif ID:	13
Motif name:	C013
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	10
Number of overlap:	18
Similarity score:	0.0151683

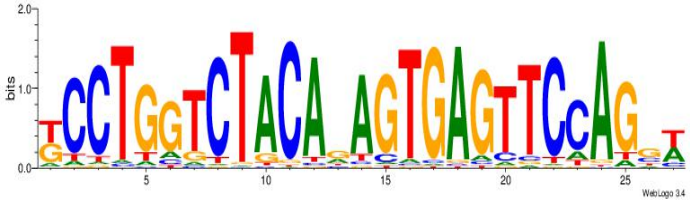
Alignment:

```
WVCTGGAACTCACTHTGTAGACCAGGM
---------WCCTKGWTCTCWCMCTGW
```

Original motif Consensus sequence: WVCTGGAACTCACTHTGTAGACCAGGM



Reverse complement motif Consensus sequence: YCCTGGTCTACADAGTGAGTTCCAGVW



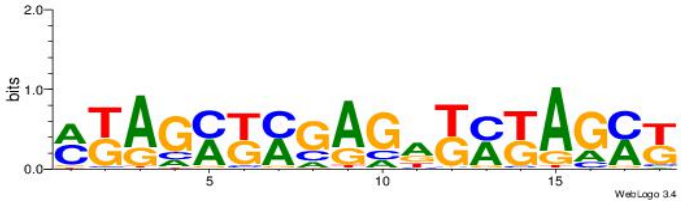
Dataset #:	1
Motif ID:	36
Motif name:	C036
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.0306284

Alignment:

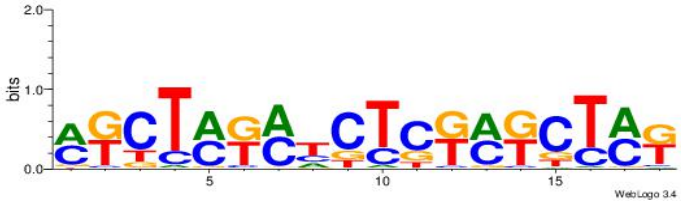
MKAGMKMGAGAKMKAGMK

WCAGRGWGAGAWCYAGGW

Original motif Consensus sequence: MKAGMKMGAGAKMKAGMK



Reverse complement motif Consensus sequence: RRCTRRRTCTCRRRCTRY

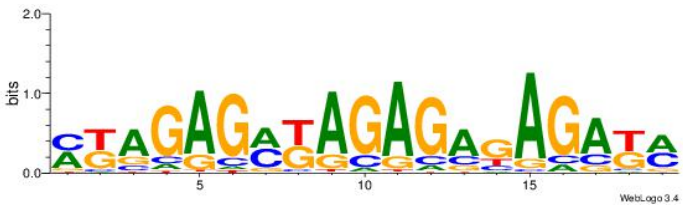


Dataset #:	1
Motif ID:	12
Motif name:	C012
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward

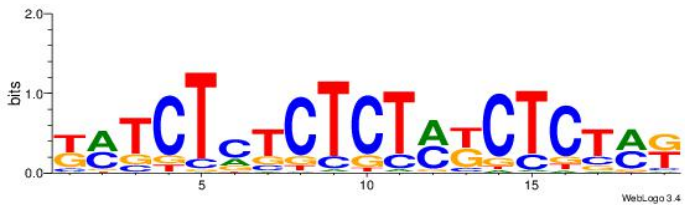
Position number: 2
Number of overlap: 18
Similarity score: 0.0378139

Alignment:
MKAGAGMKAGAGAGAGAKM
WCAGRGWGAGAWCYAGGW-

Original motif Consensus sequence: MKAGAGMKAGAGAGAGAKM



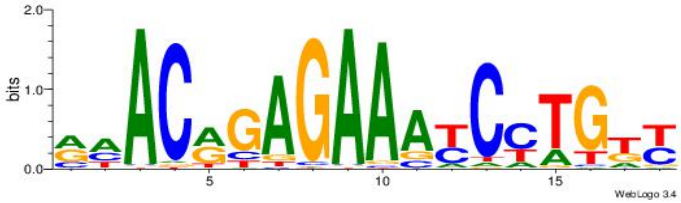
Reverse complement motif Consensus sequence: YRTCTCTCTCTRYCTCTRR



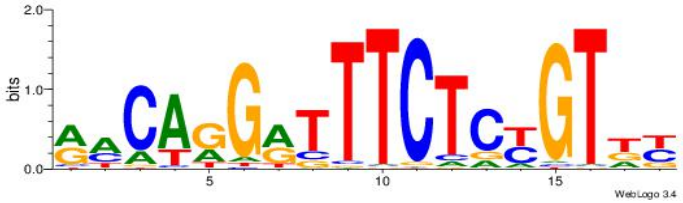
Dataset #: 1
Motif ID: 53
Motif name: C053
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 18
Similarity score: 0.0408936

Alignment:
RMACRGAGAAAYCCTGKY
WCAGRGWGAGAWCYAGGW

Original motif Consensus sequence: RMACRGAGAAAYCCTGKY



Reverse complement motif Consensus sequence: MRCAGGMTTTCTCKGTYK

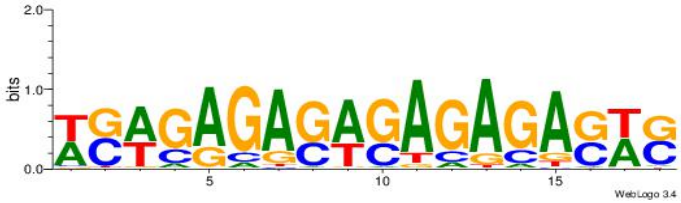


Dataset #:	1
Motif ID:	17
Motif name:	C017
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	18
Similarity score:	0.0517011

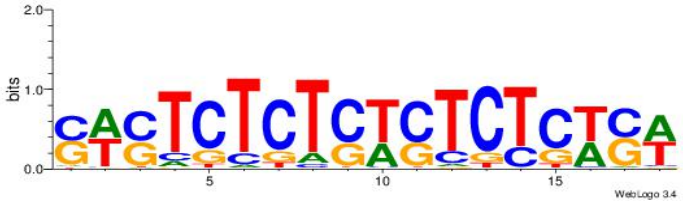
Alignment:

```
WSWGAGASWSAGAGASWS
WCAGRGWGAGAWCYAGGW
```

Original motif Consensus sequence: WSWGAGASWSAGAGASWS

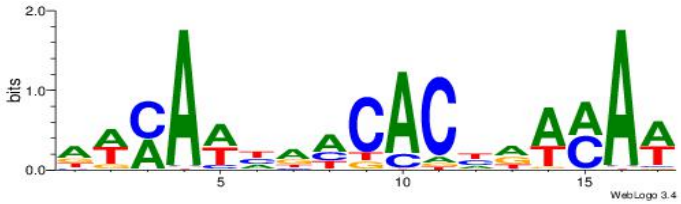


Reverse complement motif Consensus sequence: SWSTCTCTSWSTCTCWSW

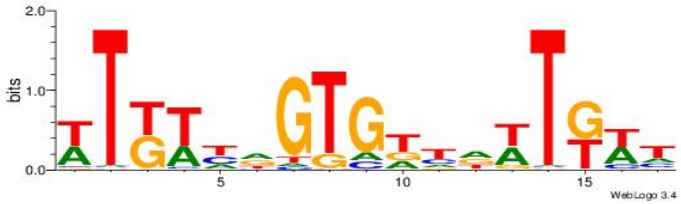


Dataset #: 1 Motif ID: 133 Motif name: C133

Original motif Consensus sequence: AWMAWHDACACHRWMAW



Reverse complement motif Consensus sequence: WTYWKHGTGTDHWTRWT



Best Matches for Motif ID 133 (Highest to Lowest)

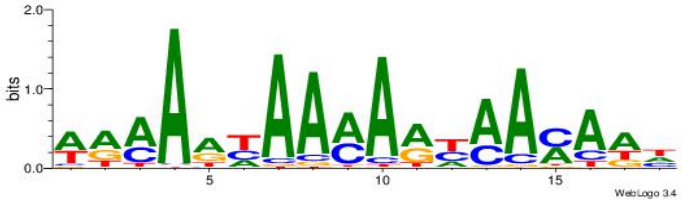
Dataset #:	1
Motif ID:	57
Motif name:	C057
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.0266447

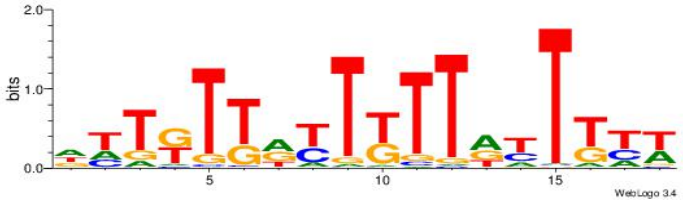
Alignment:

```
WRMARYAAMARYAAMAWH
AWMAWHDACACHRWMAW-
```

Original motif Consensus sequence: WRMARYAAMARYAAMAWH

Reverse complement motif Consensus sequence: HWTRTTMKTYTTMKTYKW



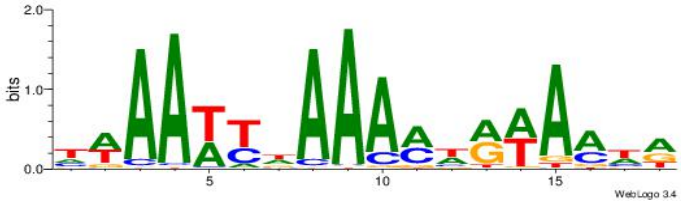


Dataset #:	1
Motif ID:	32
Motif name:	C032
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.0319281

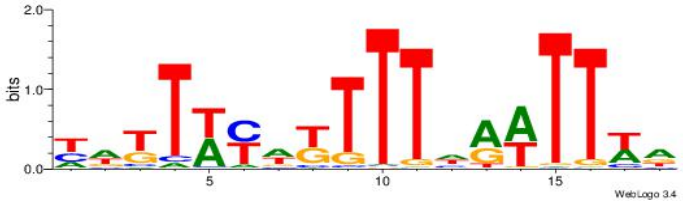
Alignment:

```
HWAAWYDAAAMWRWAMWR
AWMAWHDACACHRWMAW-
```

Original motif Consensus sequence: HWAAWYDAAAMWRWAMWR



Reverse complement motif Consensus sequence: KWYTWKWYTTTDMWTTWH



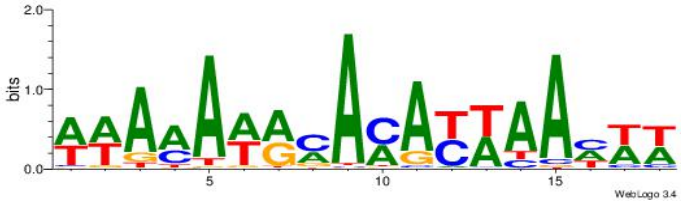
Dataset #:	1

Motif ID:	62
Motif name:	C062
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.0386594

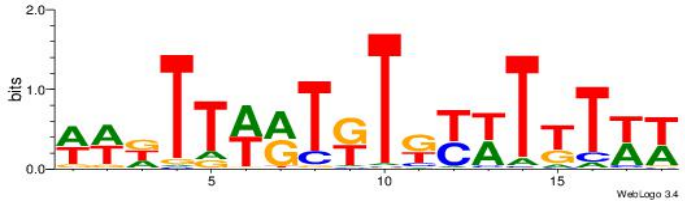
Alignment:

```
WWAMAWRMAMAYWAAHWW
-AWMAWHDACACHRWMAW
```

Original motif Consensus sequence: WWAMAWRMAMAYWAAHWW



Reverse complement motif Consensus sequence: WWDTTWMTRTRKWTYTWW

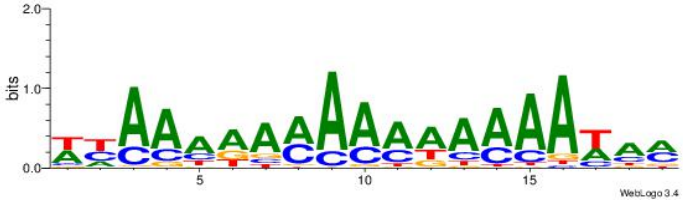


Dataset #:	1
Motif ID:	30
Motif name:	C030
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	17

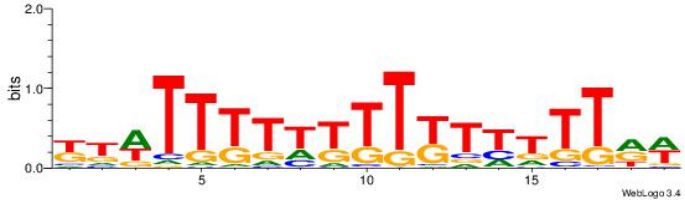
Similarity score: 0.0405967

Alignment:
WYAAAAAMAAAAAAAAWAM
AWMAWHDACACHRWMAW--

Original motif Consensus sequence: WYAAAAAMAAAAAAAAWAM



Reverse complement motif Consensus sequence: YTWTTTTTTTTYTTTTTMW

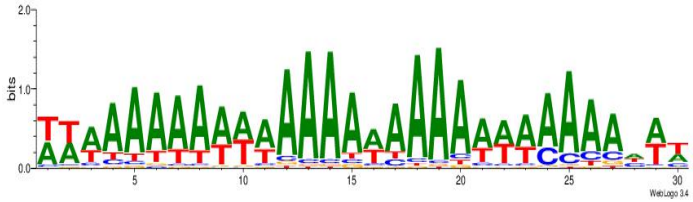


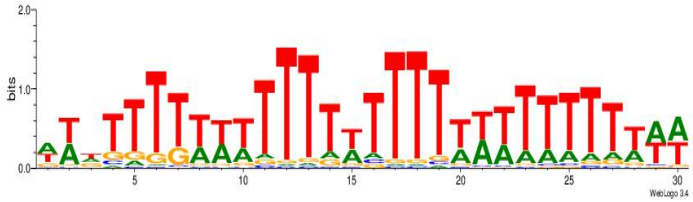
Dataset #: 1
Motif ID: 1
Motif name: C001
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 5
Number of overlap: 17
Similarity score: 0.04166

Alignment:
WWWAAAAAWWAAAAAWAAAAAWWAAAAHWW
---------AWMAWHDACACHRWMAW----

Original motif Consensus sequence:
WWWAAAAAWWAAAAAWAAAAAWWAAAAHWW

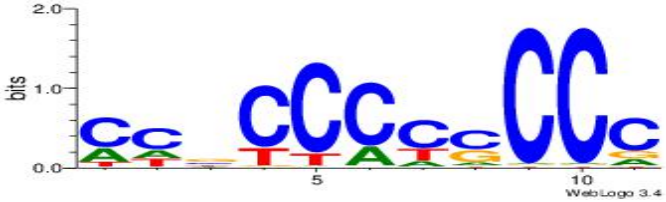
Reverse complement motif Consensus sequence:
WWHTTTTWWTTTTTWTTTTTWWTTTTTWWW





Dataset #: 1 Motif ID: 134 Motif name: C134

Original motif Consensus sequence: CCBCCCCSCCC



Reverse complement motif Consensus sequence: GGGSGGGGBGG

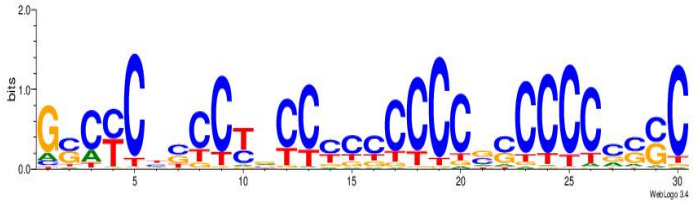
Best Matches for Motif ID 134 (Highest to Lowest)

Dataset #:	1
Motif ID:	3
Motif name:	C003
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	15
Number of overlap:	11
Similarity score:	0.0107438

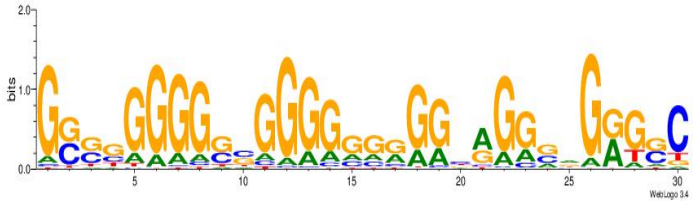
Alignment:

```
GSSGGGGGSSGGGGGGKGGVMGGSHGKGSC
-----GGGSGGGGBGG--------------
```

Original motif Consensus sequence:
GSCYCHSCCYVCCYCCCCCCSSCCCCCSSC



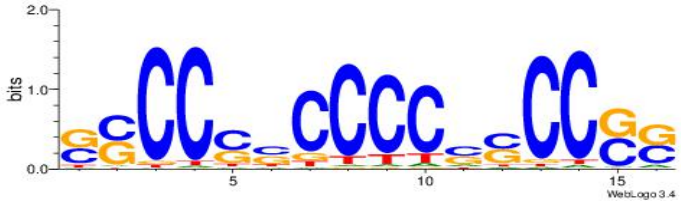
Reverse complement motif Consensus sequence:
GSSGGGGGSSGGGGGGKGGVMGGSHGKGSC



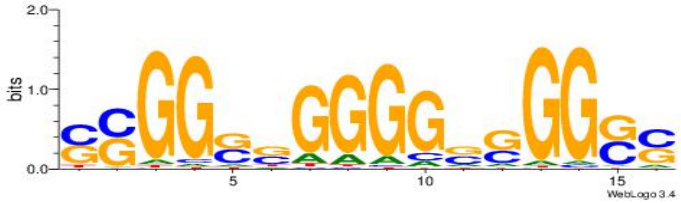
Dataset #:	1
Motif ID:	8
Motif name:	C008
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0135583

Alignment:
SSCCSSCCCCSSCCSS
---CCBCCCCSCCC--

Original motif Consensus sequence: SSCCSSCCCCSSCCSS



Reverse complement motif Consensus sequence:
SSGGSSGGGGSSGGSS

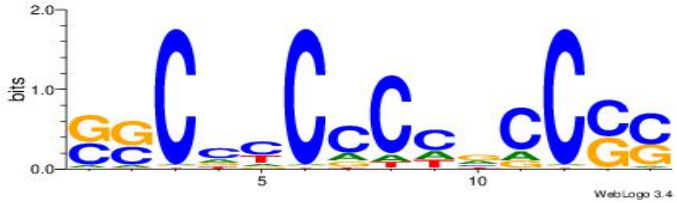


Dataset #:	1
Motif ID:	104
Motif name:	C104
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0183091

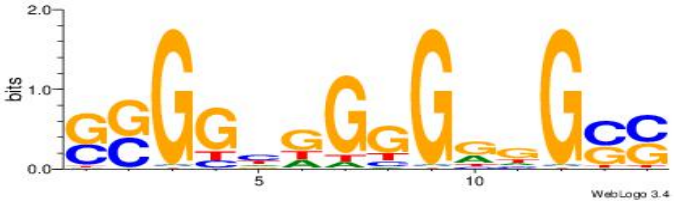
Alignment:

```
SSCCYCCCCDCCSS
--CCBCCCCSCCC-
```

Original motif Consensus sequence: SSCCYCCCCDCCSS



Reverse complement motif Consensus sequence: SSGGHGGGGKGG

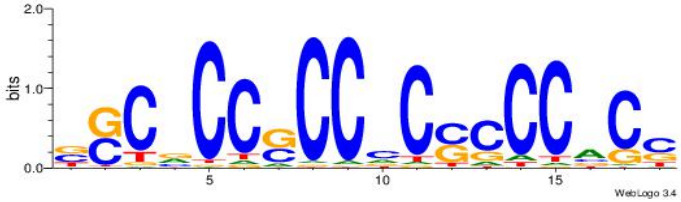


Dataset #:	1
Motif ID:	20
Motif name:	C020
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	11

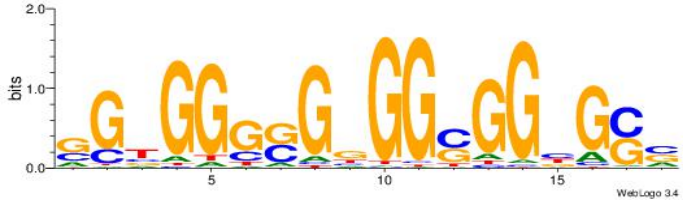
Similarity score: 0.0185182

Alignment:
BSCVCCSCCVCSCCCACS
----CCBCCCCSCCC---

Original motif Consensus sequence: BSCVCCSCCVCSCCCACS



Reverse complement motif Consensus sequence: SGTGGGSGVGGSGGVGSB

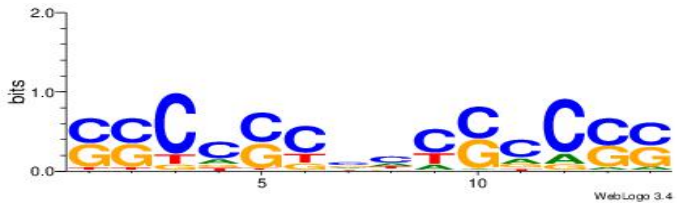


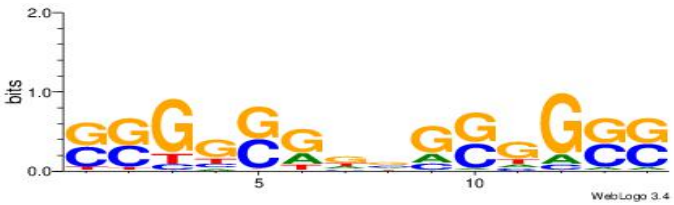
Dataset #: 1
Motif ID: 23
Motif name: C023
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 11
Similarity score: 0.0190337

Alignment:
SSGGSGDBGSGGSS
-GGGSGGGGBGG--

Original motif Consensus sequence: SSCCSCBHCSCCSS

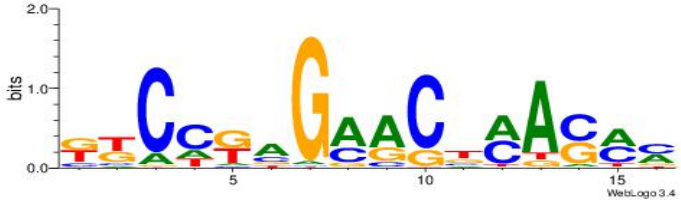
Reverse complement motif Consensus sequence: SSGGSGDBGSGGS



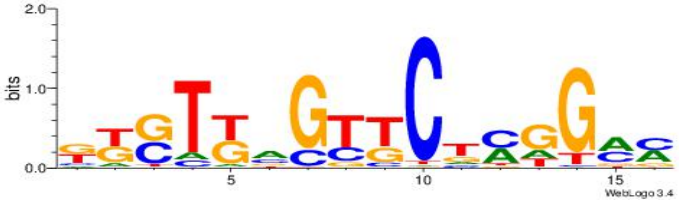


Dataset #: 1 Motif ID: 135 Motif name: C135

Original motif Consensus sequence: KKCCKAGMACBMASMM



Reverse complement motif Consensus sequence: RYSTYVGTYCTYGC



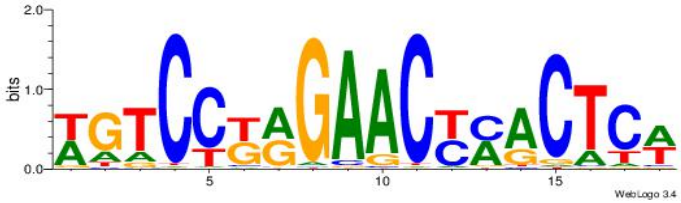
Best Matches for Motif ID 135 (Highest to Lowest)

Dataset #:	1
Motif ID:	42
Motif name:	C042
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	16
Similarity score:	0.0178338

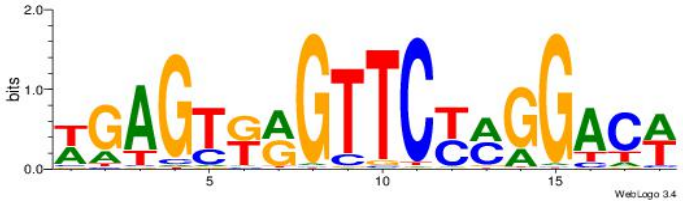
Alignment:

```
WGTCCKRGAACYMACTCW
-KKCCKAGMACBMASMM-
```

Original motif Consensus sequence: WGTCCKRGAACYMACTCW



Reverse complement motif Consensus sequence: WGAGTRMGTTCKRGGACW

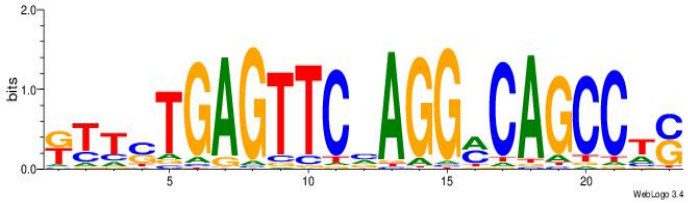


Dataset #:	1
Motif ID:	7
Motif name:	C007
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	16
Similarity score:	0.0206041

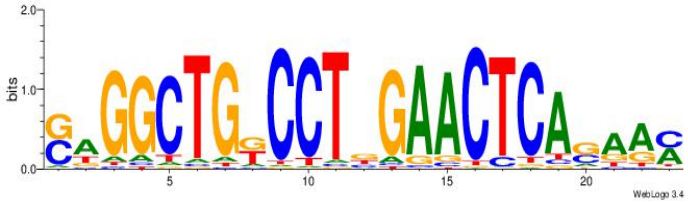
Alignment:

```
KTTSTGAGTTCVAGGMCAGCCTS
------RYSTYVGTYCTYGGRY-
```

Original motif Consensus sequence: KTTSTGAGTTCVAGGMCAGCCTS



Reverse complement motif Consensus sequence: SAGGCTGYCCTVGAACTCASAAY

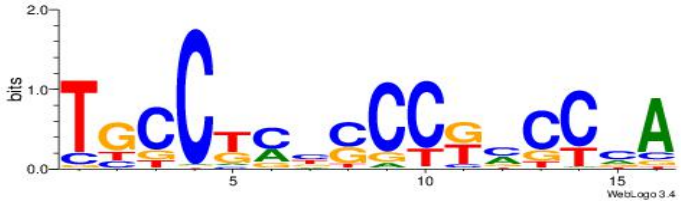


Dataset #:	1
Motif ID:	105
Motif name:	C105
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	16
Similarity score:	0.0513991

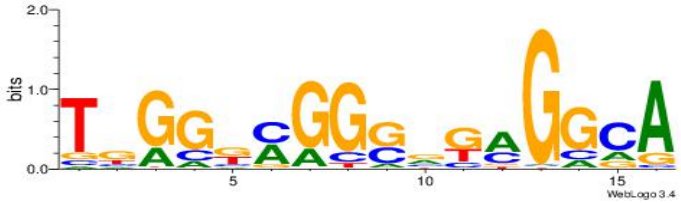
Alignment:

```
TGCCKMBSCCKMCCVA
KKCCKAGMACBMASMM
```

Original motif Consensus sequence: TGCCKMBSCCKMCCVA



Reverse complement motif Consensus sequence: TVGGRYGGSBRRGGCA

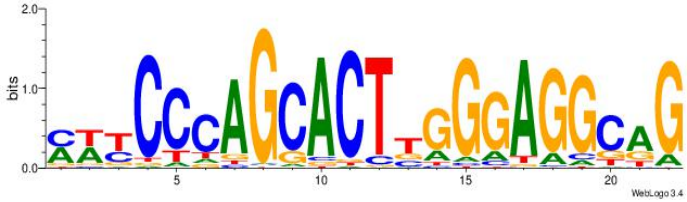


Dataset #:	1
Motif ID:	19
Motif name:	C019
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2

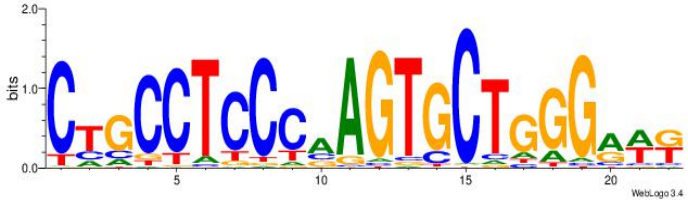
Number of overlap: 16
Similarity score: 0.0535816

Alignment:
MWYCCCAGCACTTGGGAGGCAG
-KKCCKAGMACBMASMM-----

Original motif Consensus sequence: MWYCCCAGCACTTGGGAGGCAG



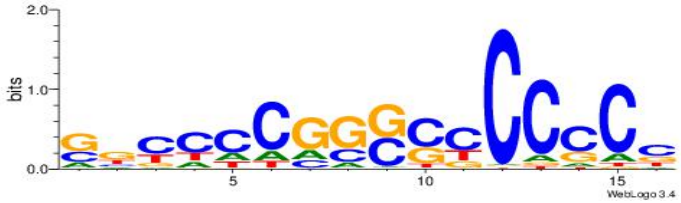
Reverse complement motif Consensus sequence: CTGCCTCCCAAGTGCTGGGMWR



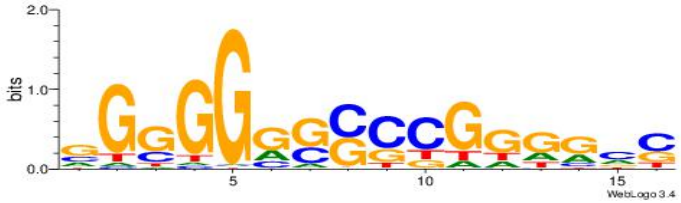
Dataset #: 1
Motif ID: 77
Motif name: C077
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 16
Similarity score: 0.0536029

Alignment:
SBCCCCGGSSCCCCCB
KKCCKAGMACBMASMM

Original motif Consensus sequence: SBCCCCGGSSCCCCCB

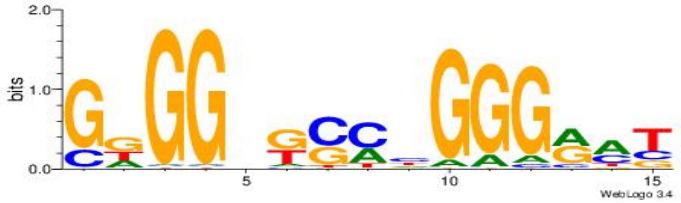


Reverse complement motif Consensus sequence: BGGGGGSSCCGGGGBS

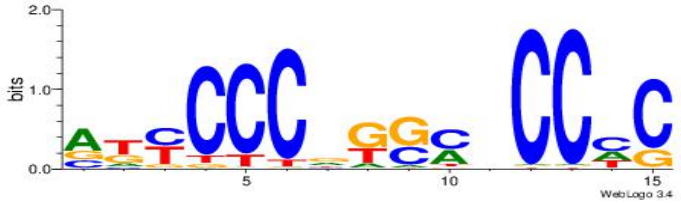


Dataset #: 1 Motif ID: 136 Motif name: C136

Original motif Consensus sequence: GDGGVKSMHGGGRMT



Reverse complement motif Consensus sequence: AYKCCCDRSYVCC



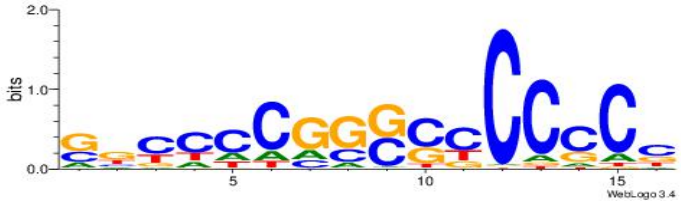
Best Matches for Motif ID 136 (Highest to Lowest)

Dataset #:	1
Motif ID:	77
Motif name:	C077
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	15
Similarity score:	0.040731

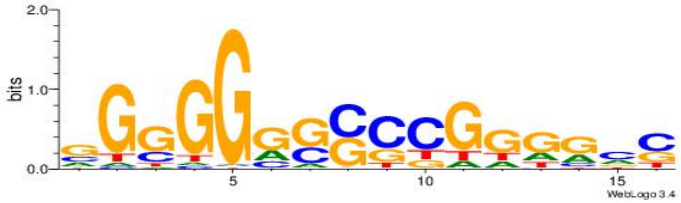
Alignment:

BGGGGGSSCCGGGGBS
GDGGVKSMHGGGRMT-

Original motif Consensus sequence: SBCCCCGGSSCCCCCB



Reverse complement motif Consensus sequence: BGGGGGSSCCGGGGBS

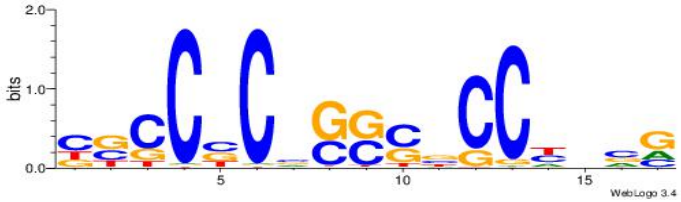


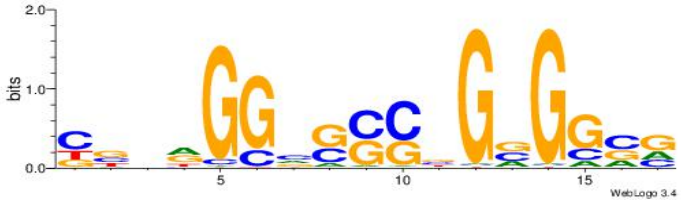
Dataset #:	1
Motif ID:	140
Motif name:	C140
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	15
Similarity score:	0.0444741

Alignment:
BSCCBCVSSSBCCYHVG
AYKCCCDRSYVCCHC--

Original motif Consensus sequence: BSCCBCVSSSBCCYHVG

Reverse complement motif Consensus sequence: CVDMGGBSSSVGBGGSB

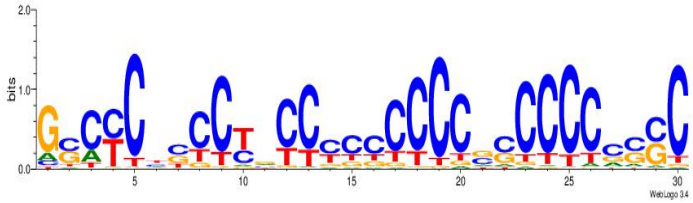




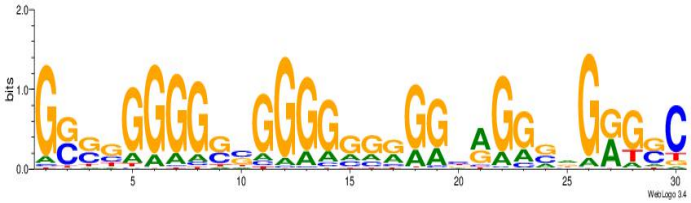
Dataset #: 1
Motif ID: 3
Motif name: C003
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward
Position number: 3
Number of overlap: 15
Similarity score: 0.0511206

Alignment:
GSCYCHSCCYVCCYCCCCCCSSCCCCCSSC
--AYKCCCDRSYVCCHC----------

Original motif Consensus sequence:
GSCYCHSCCYVCCYCCCCCCSSCCCCCSSC



Reverse complement motif Consensus sequence:
GSSGGGGGSSGGGGGGKGGVMGGSHGKGSC



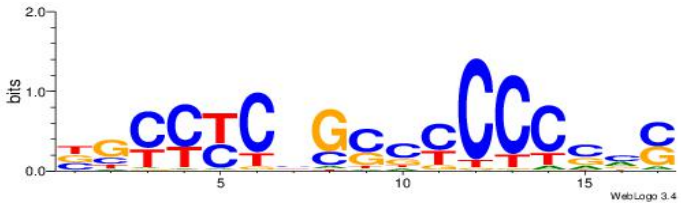
Dataset #: 1

Motif ID:	22
Motif name:	C022
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	15
Similarity score:	0.0536142

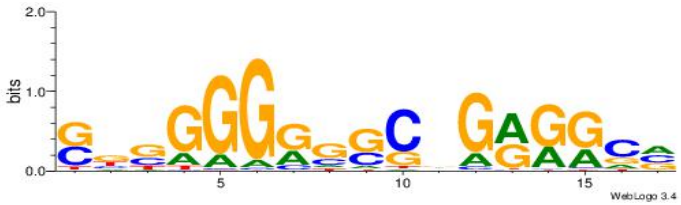
Alignment:

```
SVSGGGKGSCBGMGGCV
GDGGVKSMHGGGRMT--
```

Original motif Consensus sequence: BGCCYCBGSCYCCCSVS



Reverse complement motif Consensus sequence: SVSGGGKGSCBGMGGCV

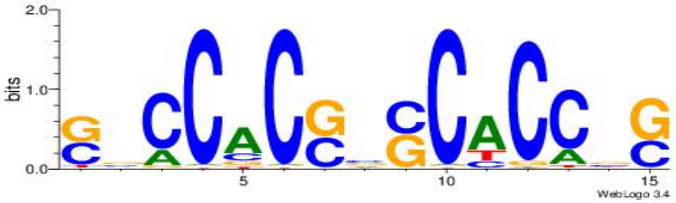


Dataset #:	1
Motif ID:	71
Motif name:	C071
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	15

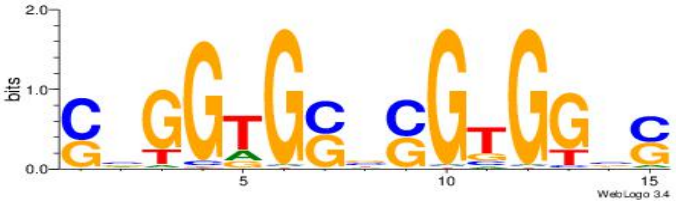
Similarity score: 0.0539648

Alignment:
SVCCACSVSCACCBS
AYKCCCDRSYVCCHC

Original motif Consensus sequence: SVCCACSVSCACCBS

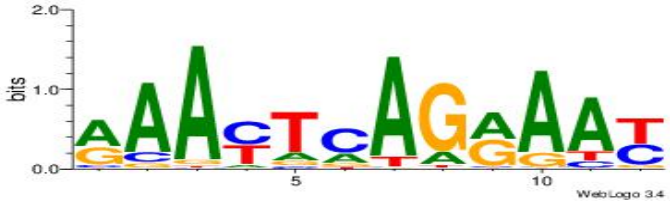


Reverse complement motif Consensus sequence: SBGGTGSVSGTGG

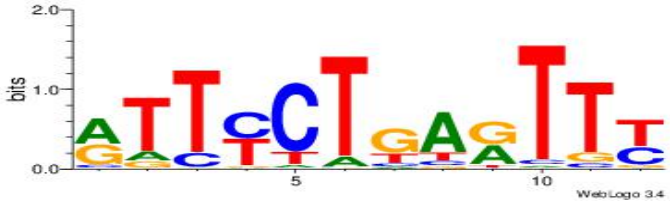


Dataset #: 1 Motif ID: 137 Motif name: C137

Original motif Consensus sequence: RAAYTCAGRAAY



Reverse complement motif Consensus sequence: MTTKCTGAKTTK



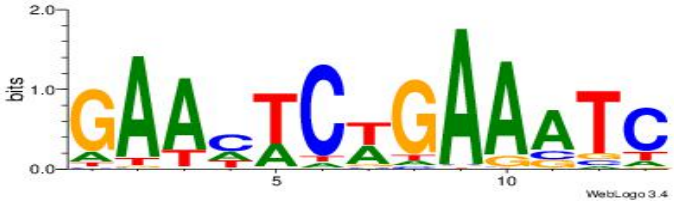
Best Matches for Motif ID 137 (Highest to Lowest)

Dataset #:	1
Motif ID:	123
Motif name:	C123
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward

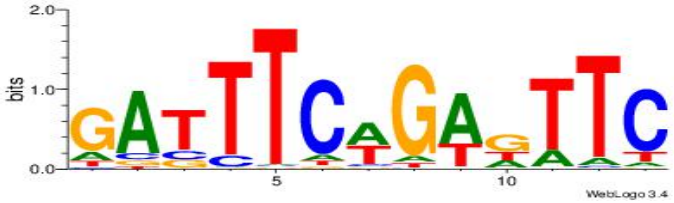
Position number: 1
Number of overlap: 12
Similarity score: 0.0147063

Alignment:
GAAMTCWGAAATC
RAAYTCAGRAAY-

Original motif Consensus sequence: GAAMTCWGAAATC



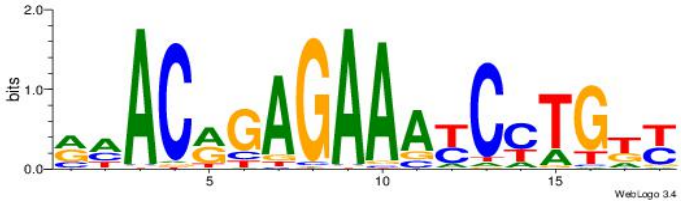
Reverse complement motif Consensus sequence: GATTTCWGARTTC



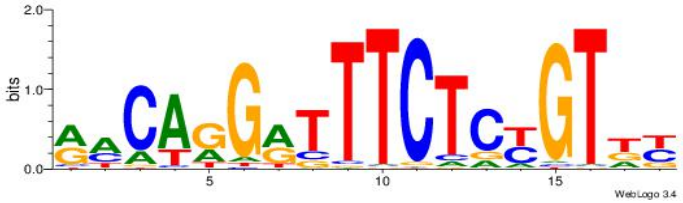
Dataset #: 1
Motif ID: 53
Motif name: C053
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 12
Similarity score: 0.0233558

Alignment:
MRCAGGMTTTCTCKGTYK
------MTTKCTGAKTTK

Original motif Consensus sequence: RMACRGAGAAAYCCTGKY



Reverse complement motif Consensus sequence: MRCAGGMTTTCTCKGTYK

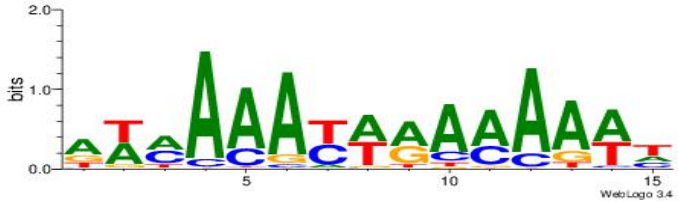


Dataset #:	1
Motif ID:	56
Motif name:	C056
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	12
Similarity score:	0.0266873

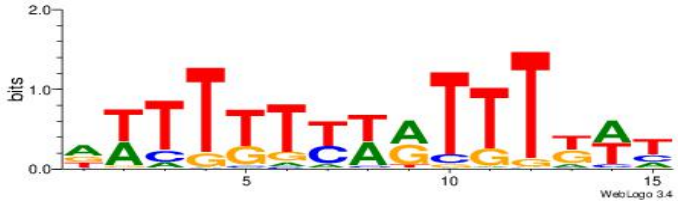
Alignment:

```
AWMAAAYWRAMAAWH
---RAAYTCAGRAAY
```

Original motif Consensus sequence: AWMAAAYWRAMAAWH



Reverse complement motif Consensus sequence: HWTTYTKWMTTTYWT

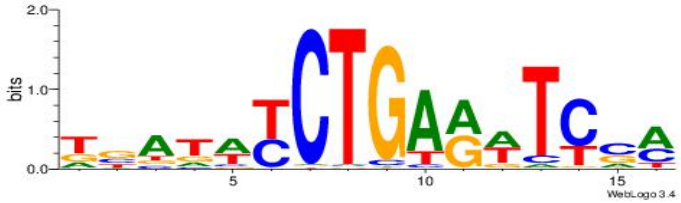


Dataset #:	1
Motif ID:	111
Motif name:	C111
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	12
Similarity score:	0.031512

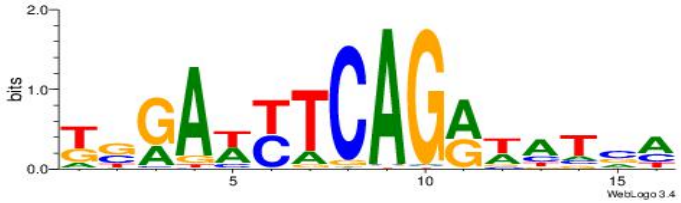
Alignment:

```
YSGAWKTCAGMWATBA
--RAAYTCAGRAAY--
```

Original motif Consensus sequence: TBATWYCTGARWTCSM



Reverse complement motif Consensus sequence: YSGAWKTCAGMWATBA



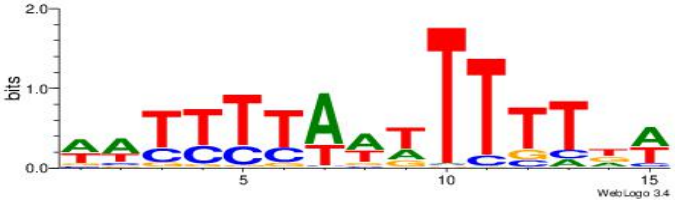
Dataset #:	1
Motif ID:	142
Motif name:	C142
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1

Number of overlap: 12
Similarity score: 0.0319699

Alignment:
WHAAAAAWTAAAAWW
---RAAYTCAGRAAY

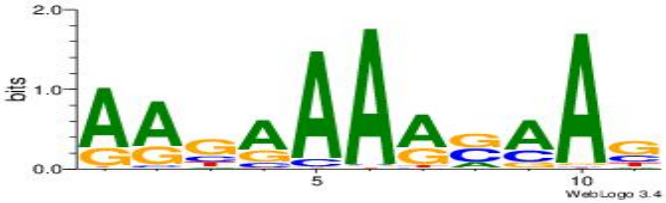
Original motif Consensus sequence: WHAAAAAWTAAAAWW

Reverse complement motif Consensus sequence: WWTTTTAWTTTTTHW

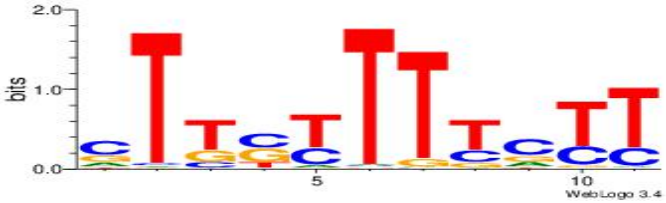


Dataset #: 1 Motif ID: 138 Motif name: C138

Original motif Consensus sequence: AAGAAARSAAG



Reverse complement motif Consensus sequence: CTTSKTTTCTT



Best Matches for Motif ID 138 (Highest to Lowest)

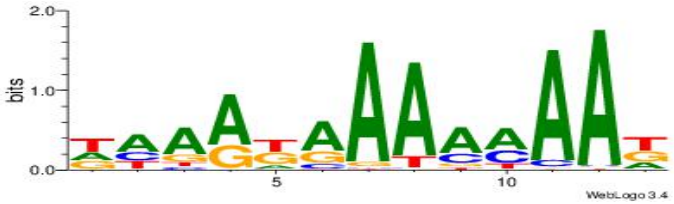
Dataset #: 1
Motif ID: 64
Motif name: C064
Matching format of first motif: Original Motif

Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	11
Similarity score:	0.00458258

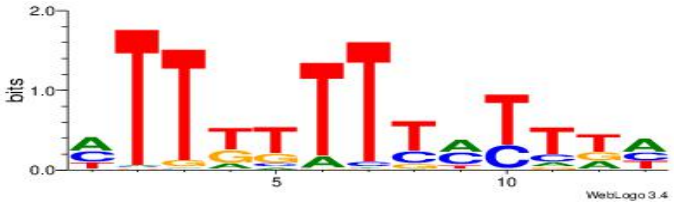
Alignment:

```
DAAAKAAAAMAAK
--AAGAAARSAAG
```

Original motif Consensus sequence: DAAAKAAAAMAAK



Reverse complement motif Consensus sequence: RTTYTTTTRTTTD

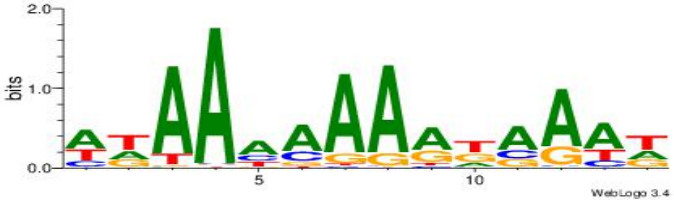


Dataset #:	1
Motif ID:	67
Motif name:	C067
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	11
Similarity score:	0.0200769

Alignment:

DTTTRKTTTTTTDW
-CTTSKTTTCTT--

Original motif Consensus sequence: WDAAAAAARKAAAD



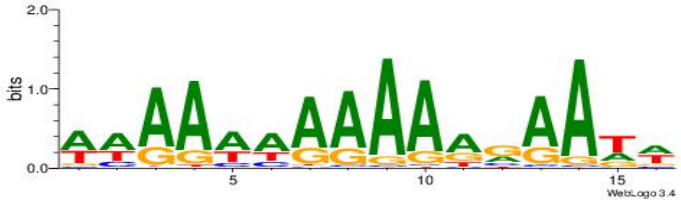
Reverse complement motif Consensus sequence: DTTTRKTTTTTTDW

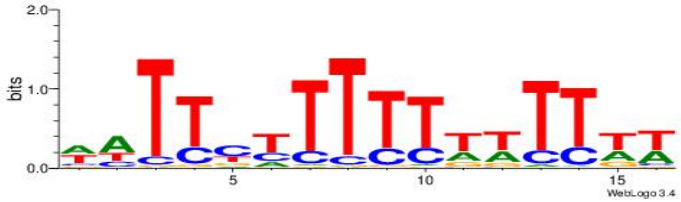
Dataset #:	1
Motif ID:	43
Motif name:	C043
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0226182

Alignment:
WATTMTTTTTTWTTWW
-CTTSKTTTCTT----

Original motif Consensus sequence: WWAAWAAAAAARAATW

Reverse complement motif Consensus sequence: WATTMTTTTTTWTTWW



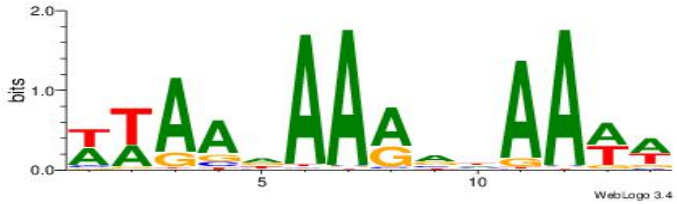


Dataset #:	1
Motif ID:	131
Motif name:	C131
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	11
Similarity score:	0.0250941

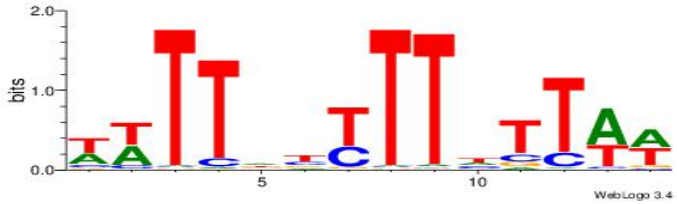
Alignment:

```
WWAADAARVHAAWW
--AAGAAARSAAG-
```

Original motif Consensus sequence: WWAADAARVHAAWW



Reverse complement motif Consensus sequence: WWTTHBKTTDTTW



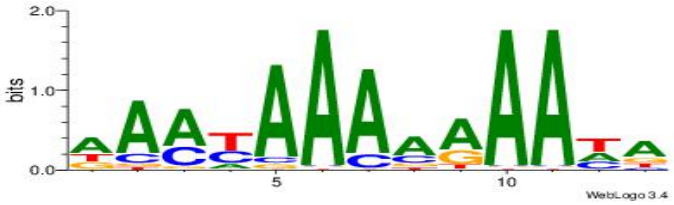
Dataset #:	1
Motif ID:	18

Motif name:	C018
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	11
Similarity score:	0.0261093

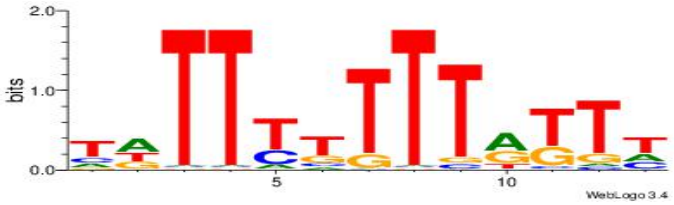
Alignment:

```
THTTTTTTTMYTT
-CTTSKTTTCTT-
```

Original motif Consensus sequence: AAMYAAAAAAAHA

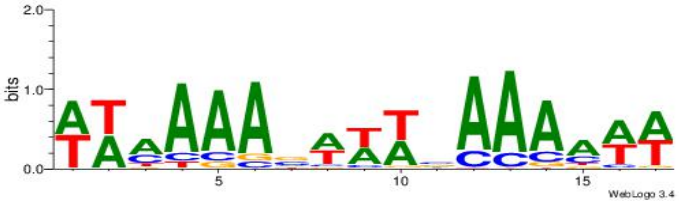


Reverse complement motif Consensus sequence: THTTTTTTTMYTT

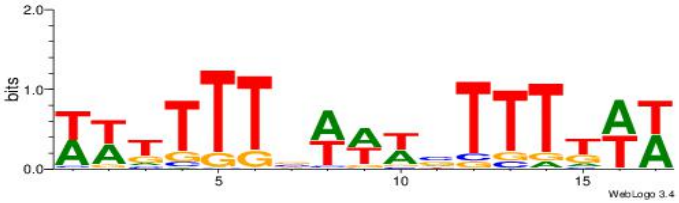


Dataset #: 1 Motif ID: 139 Motif name: C139

Original motif Consensus sequence: WWMAAABWWWVAAAAWW



Reverse complement motif Consensus sequence: WWTTTTVWWWBTTTYWW

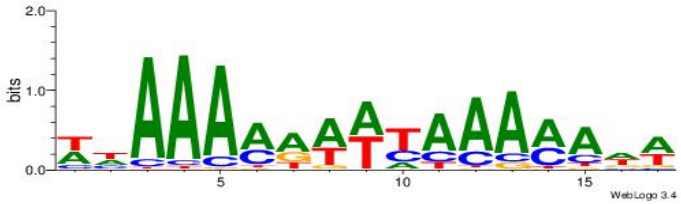


Best Matches for Motif ID 139 (Highest to Lowest)

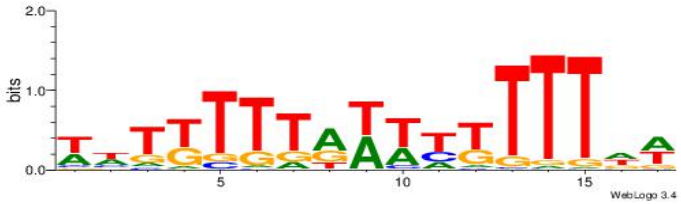
Dataset #:	1
Motif ID:	31
Motif name:	C031
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.0155336

Alignment:
WHAAAMRWWYAAAMAWW
WWMAAABWWWVAAAAWW

Original motif Consensus sequence: WHAAAMRWWYAAAMAWW



Reverse complement motif Consensus sequence: WWTYTTTMWWKYTTTHW



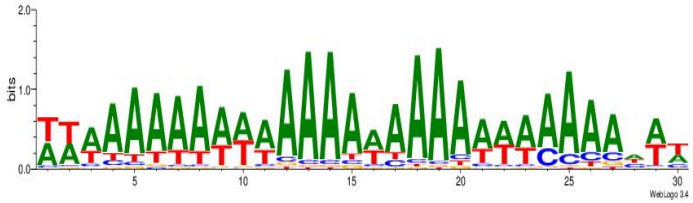
Dataset #:	1
Motif ID:	1
Motif name:	C001
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement

Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.0179742

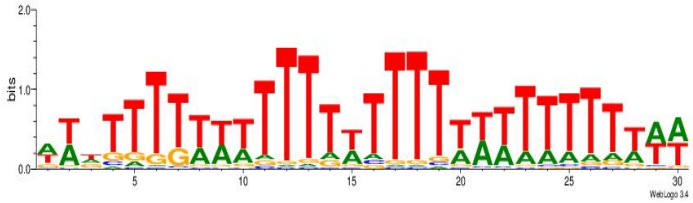
Alignment:

```
WWHTTTTWWTTTTTWTTTTTWWTTTTTWWW
-------------WWTTTTVWWWBTTTYWW
```

Original motif Consensus sequence:
WWWAAAAAWWAAAAAWAAAAAWWAAAAHWW



Reverse complement motif Consensus sequence:
WWHTTTTWWTTTTTWTTTTTWWTTTTTWWW

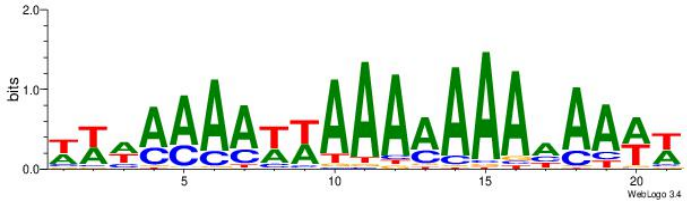


Dataset #:	1
Motif ID:	10
Motif name:	C010
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.0284807

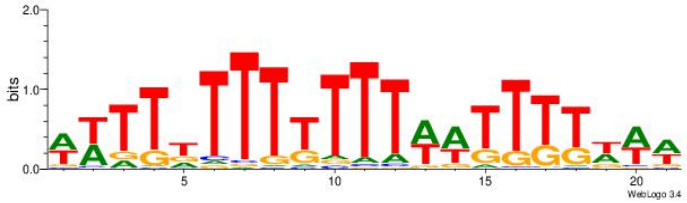
Alignment:

```
WWWAAAAWWAAAAAAAAAAWW
WWMAAABWWWVAAAAWW----
```

Original motif Consensus sequence: WWWAAAAWWAAAAAAAAAWW



Reverse complement motif Consensus sequence: WWTTTTTTTTTWWTTTTWWW

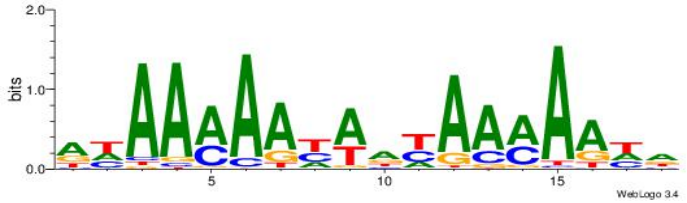


Dataset #:	1
Motif ID:	69
Motif name:	C069
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	17
Similarity score:	0.0322212

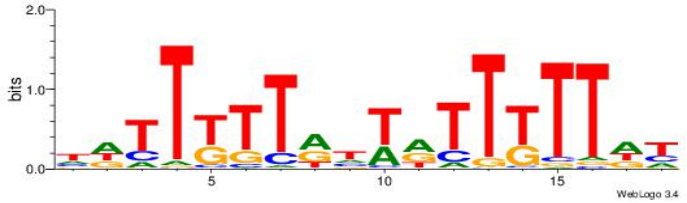
Alignment:

```
AHAAMAAYWDYAAMAAHD
WWMAAABWWWVAAAAWW-
```

Original motif Consensus sequence: AHAAMAAYWDYAAMAAHD



Reverse complement motif Consensus sequence: DHTTYTTMDWMTTYTTHT

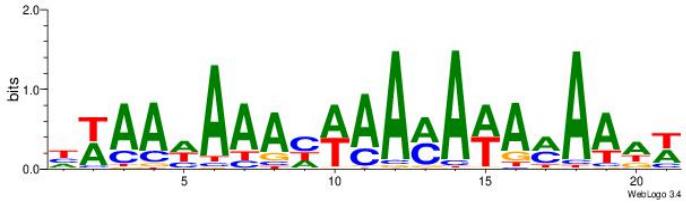


Dataset #:	1
Motif ID:	16
Motif name:	C016
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.0367806

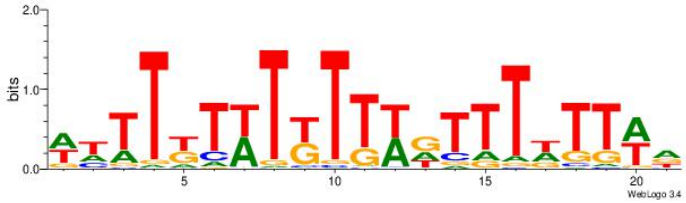
Alignment:

```
HWAAWAAAHWAAMAWAMAAWW
--WWMAAABWWWVAAAAWW--
```

Original motif Consensus sequence: HWAAWAAAHWAAMAWAMAAWW



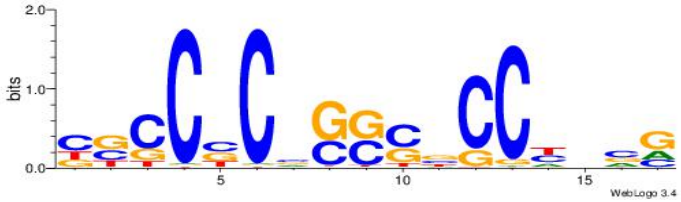
Reverse complement motif Consensus sequence: WWTTYTWTYTTWDTTTWTTWH

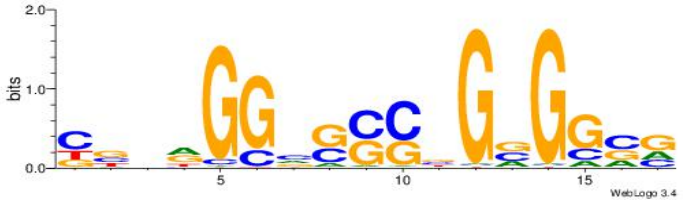


Dataset #: 1 Motif ID: 140 Motif name: C140

Original motif Consensus sequence: BSCCBCVSSSBCCYHVG

Reverse complement motif Consensus sequence: CVDMGGBSSSVGBGGSB





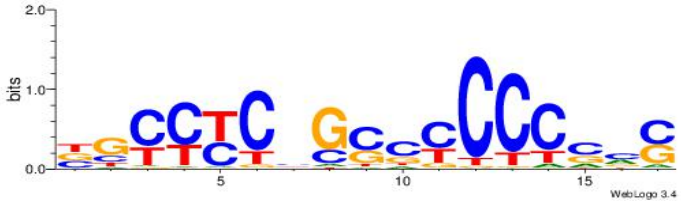
Best Matches for Motif ID 140 (Highest to Lowest)

Dataset #:	1
Motif ID:	22
Motif name:	C022
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	17
Similarity score:	0.00509294

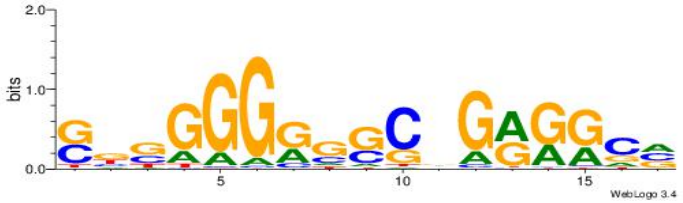
Alignment:

```
BGCCYCBGSCYCCCSVS
BSCCBCVSSSBCCYHVG
```

Original motif Consensus sequence: BGCCYCBGSCYCCCSVS



Reverse complement motif Consensus sequence: SVSGGGKGSCBGMGGCV



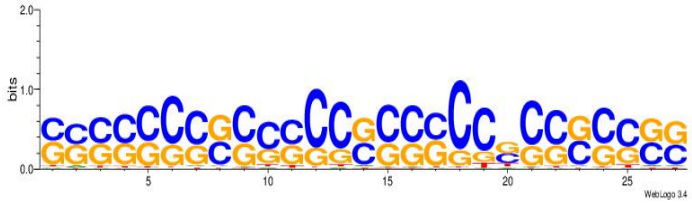
Dataset #:	1
Motif ID:	4
Motif name:	C004
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	7
Number of overlap:	17
Similarity score:	0.00879579

Alignment:

```
SSSSSCSSSSSCCSSSSCCSCSSSSSS
------BSCCBCVSSSBCCYHVG----
```

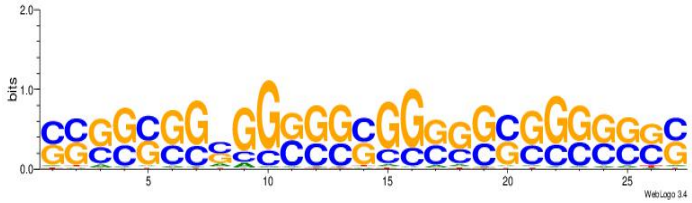
Original motif Consensus sequence:

SSSSSCSSSSSCCSSSSCCSCSSSSSS



Reverse complement motif Consensus sequence:

SSSSSSGSGGSSSSGGSSSSSGSSSSS

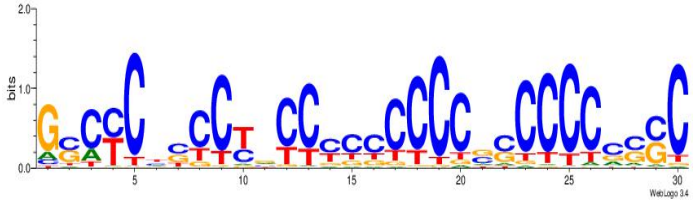


Dataset #:	1
Motif ID:	3
Motif name:	C003
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	14

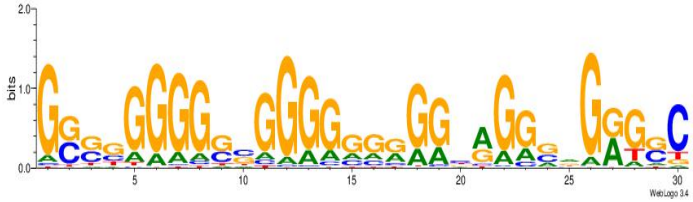
Number of overlap: 17
Similarity score: 0.0228159

Alignment:
GSCYCHSCCYVCCYCCCCCCSSCCCCCSSC
----------BSCCBCVSSSBCCYHVG

Original motif Consensus sequence:
GSCYCHSCCYVCCYCCCCCCSSCCCCCSSC



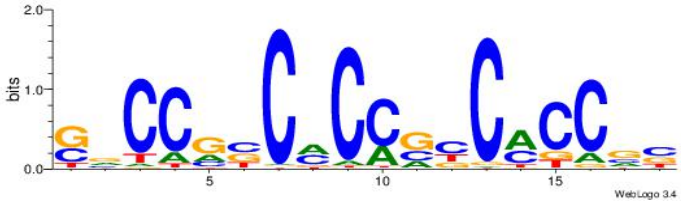
Reverse complement motif Consensus sequence:
GSSGGGGGSSGGGGGGKGGVMGGSHGKGSC



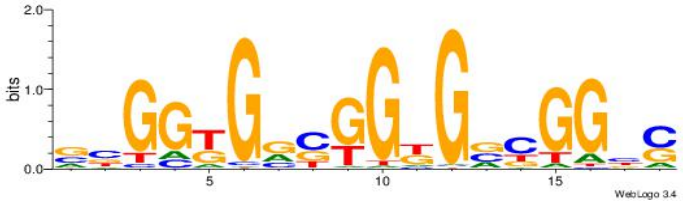
Dataset #: 1
Motif ID: 37
Motif name: C037
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 17
Similarity score: 0.0353839

Alignment:
BVGGYGKSGGYGBCGGVS
-CVDMGGBSSSVGBGGSB

Original motif Consensus sequence: SVCCGBCMCCSYCMCCVB



Reverse complement motif Consensus sequence: BVGGYGKSGGYGBCGGVS

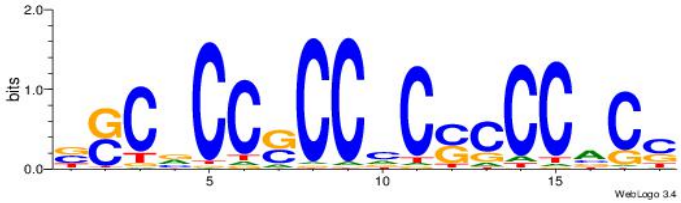


Dataset #:	1
Motif ID:	20
Motif name:	C020
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	17
Similarity score:	0.0426992

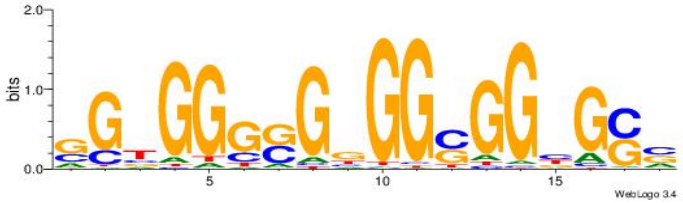
Alignment:

```
BSCVCCSCCVCSCCCACS
-BSCCBCVSSSBCCYHVG
```

Original motif Consensus sequence: BSCVCCSCCVCSCCCACS

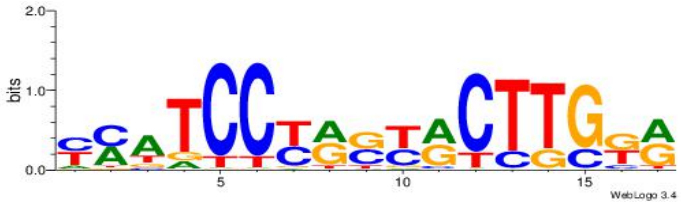


Reverse complement motif Consensus sequence: SGTGGGSGVGGSGGVGSB



Dataset #: 1 Motif ID: 141 Motif name: C141

Original motif Consensus sequence: YMATCCYRSYRCTTGKR



Reverse complement motif Consensus sequence: KYCAAGKMSKMGGATRK

Best Matches for Motif ID 141 (Highest to Lowest)

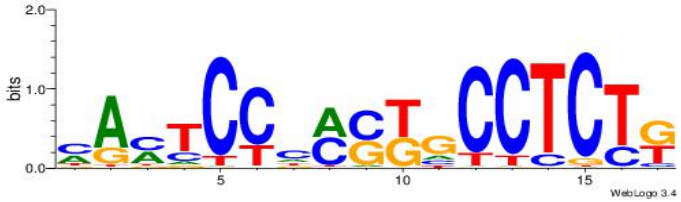
Dataset #:	1
Motif ID:	66
Motif name:	C066
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.0228971

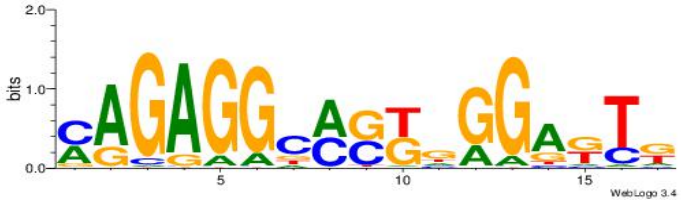
Alignment:

```
MAMTCCCMSKGCCTCTK
YMATCCYRSYRCTTGKR
```

Original motif Consensus sequence: MAMTCCCMSKGCCTCTK

Reverse complement motif Consensus sequence: YAGAGGCRSYGGGARTR



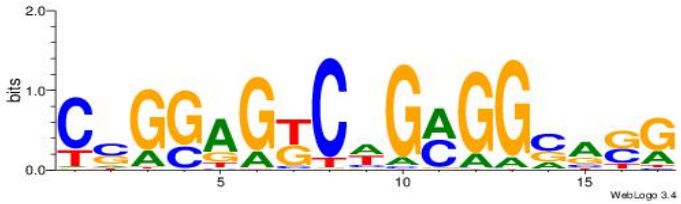


Dataset #:	1
Motif ID:	86
Motif name:	C086
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	17
Similarity score:	0.0390911

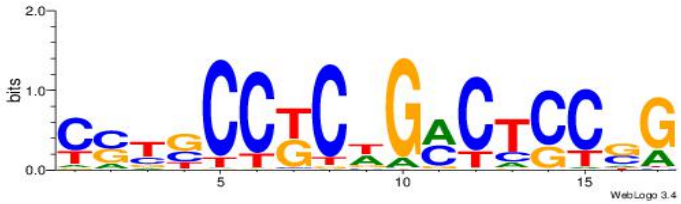
Alignment:

```
CSTSCCYCWGRCTCCSG
YMATCCYRSYRCTTGKR
```

Original motif Consensus sequence: CSGGAGKCWGMGGSASG



Reverse complement motif Consensus sequence: CSTSCCYCWGRCTCCSG



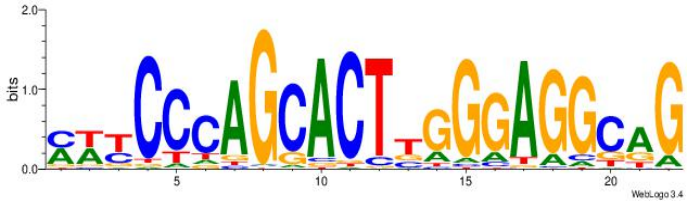
Dataset #: 1

Motif ID:	19
Motif name:	C019
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	17
Similarity score:	0.0403604

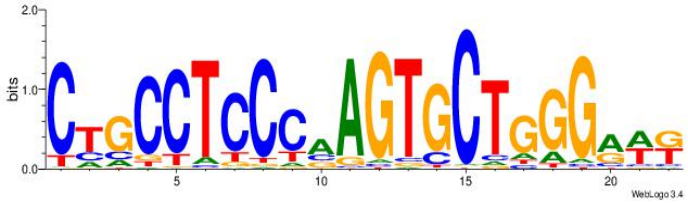
Alignment:

```
MWYCCCAGCACTTGGGAGGCAG
---KYCAAGKMSKMGGATRK--
```

Original motif Consensus sequence: MWYCCCAGCACTTGGGAGGCAG



Reverse complement motif Consensus sequence: CTGCCTCCCAAGTGCTGGGMWR

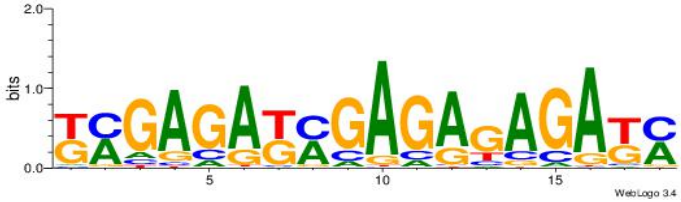


Dataset #:	1
Motif ID:	11
Motif name:	C011
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	17

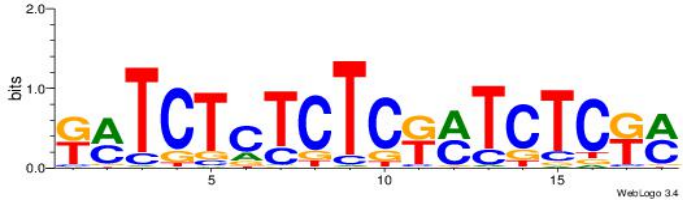
Similarity score: 0.0423875

Alignment:
RRTCTCTCTCRRTCTCRR
YMATCCYRSYRCTTGKR-

Original motif Consensus sequence: KMGAGAKMGAGAGAGAKM



Reverse complement motif Consensus sequence:
RRTCTCTCTCRRTCTCRR

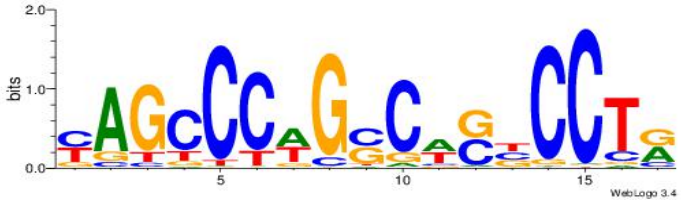


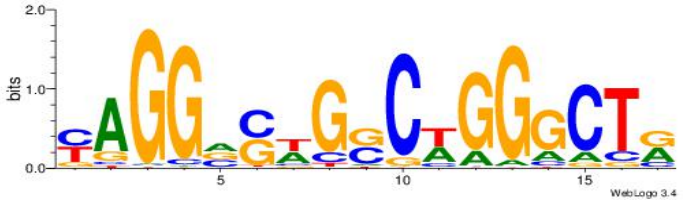
Dataset #: 1
Motif ID: 122
Motif name: C122
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 17
Similarity score: 0.0437955

Alignment:
YAGCCCWGSCWSBCCTR
YMATCCYRSYRCTTGKR

Original motif Consensus sequence: YAGCCCWGSCWSBCCTR

Reverse complement motif Consensus sequence:
MAGGVSWGSCWGGGCTK

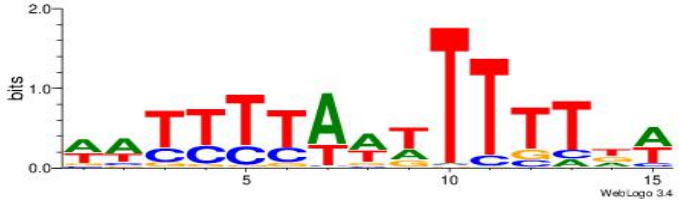




Dataset #: 1 Motif ID: 142 Motif name: C142

Original motif Consensus sequence: WHAAAAAWTAAAAWW

Reverse complement motif Consensus sequence: WWTTTTAWTTTTTHW



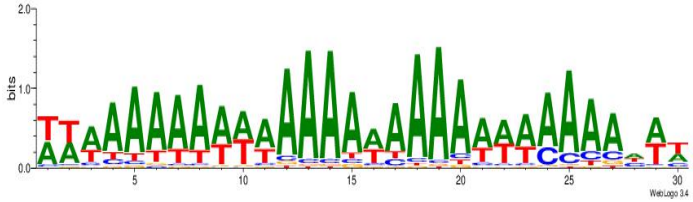
Best Matches for Motif ID 142 (Highest to Lowest)

Dataset #:	1
Motif ID:	1
Motif name:	C001
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	15
Number of overlap:	15
Similarity score:	0.0224897

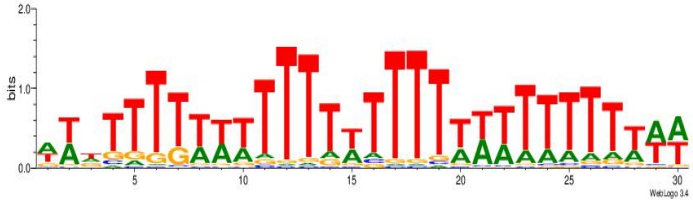
Alignment:

WWWAAAAAWWAAAAAWAAAAAWWAAAAHWW
----------WHAAAAAWTAAAAWW-

Original motif Consensus sequence:
WWWAAAAAWWAAAAAWAAAAAWWAAAAHWW



Reverse complement motif Consensus sequence:
WWHTTTTWWTTTTTWTTTTTWWTTTTTWWW

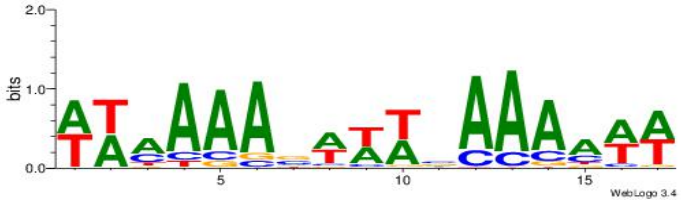


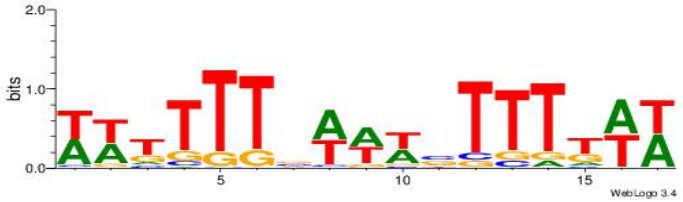
Dataset #:	1
Motif ID:	139
Motif name:	C139
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	15
Similarity score:	0.0287265

Alignment:
WWMAAABWWWVAAAAWW
-WHAAAAAWTAAAAWW-

Original motif Consensus sequence: WWMAAABWWWVAAAAWW

Reverse complement motif Consensus sequence:
WWTTTTVWWWBTTTYWW

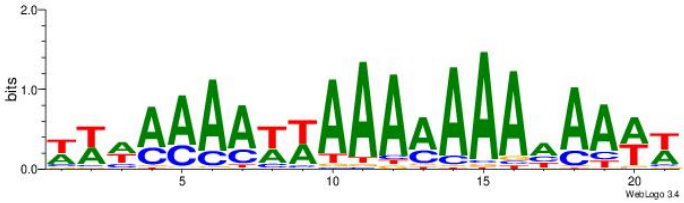




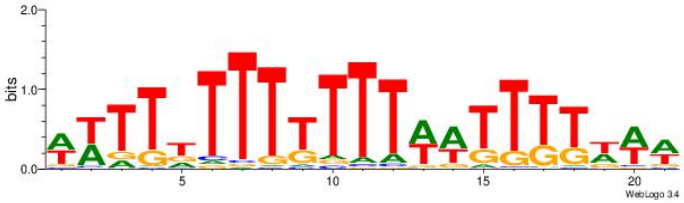
Dataset #: 1
Motif ID: 10
Motif name: C010
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 15
Similarity score: 0.0345401

Alignment:
WWWAAAAWWAAAAAAAAAAWW
WHAAAAAWTAAAAWW------

Original motif Consensus sequence: WWWAAAAWWAAAAAAAAAAWW



Reverse complement motif Consensus sequence: WWTTTTTTTTTTWWTTTTWWW



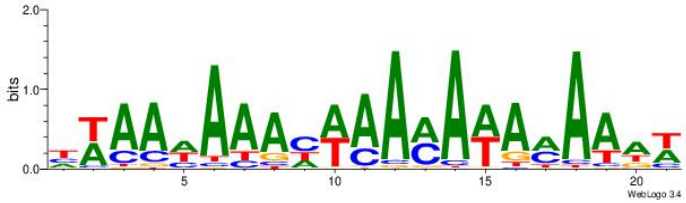
Dataset #: 1

Motif ID:	16
Motif name:	C016
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	15
Similarity score:	0.0359582

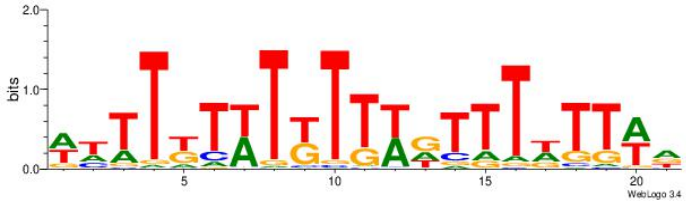
Alignment:

```
HWAAWAAAHWAAMAWAMAAWW
-WHAAAAAWTAAAAWW-----
```

Original motif Consensus sequence: HWAAWAAAHWAAMAWAMAAWW



Reverse complement motif Consensus sequence: WWTTYTWTYTTWDTTTWTTWH

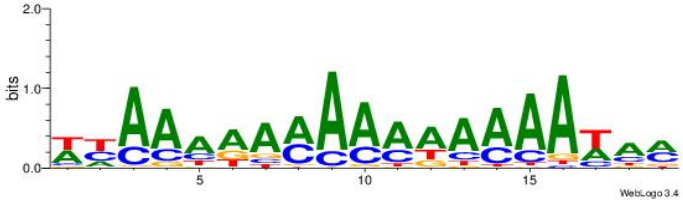


Dataset #:	1
Motif ID:	30
Motif name:	C030
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	15

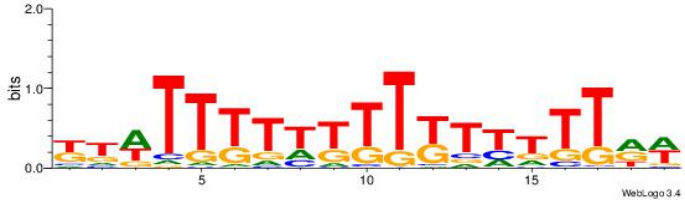
Similarity score: 0.0374284

Alignment:
WYAAAAAMAAAAAAAAWAM
---WHAAAAAWTAAAAWW-

Original motif Consensus sequence: WYAAAAAMAAAAAAAAWAM

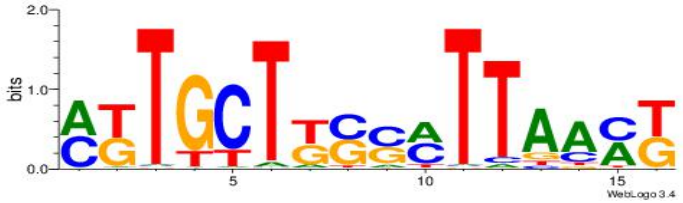


Reverse complement motif Consensus sequence: YTWTTTTTTTTYTTTTTMW

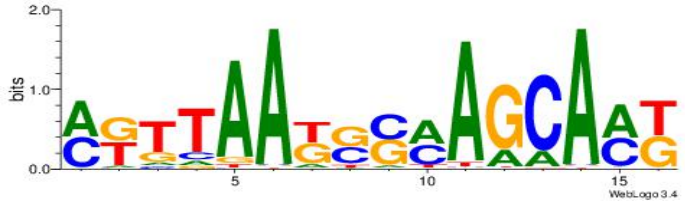


Dataset #: 1 Motif ID: 143 Motif name: C143

Original motif Consensus sequence: MKTGCTKSSMTTAAMK



Reverse complement motif Consensus sequence: RRTTAAYSSRAGCARY



Best Matches for Motif ID 143 (Highest to Lowest)

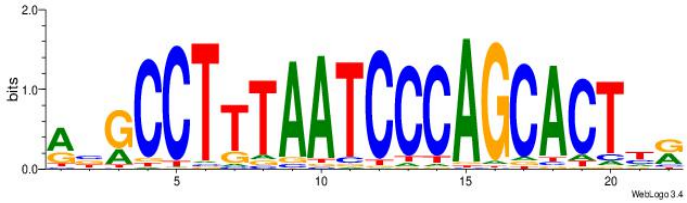
Dataset #:	1
Motif ID:	9
Motif name:	C009
Matching format of first motif:	Reverse Complement

Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	16
Similarity score:	0.00936417

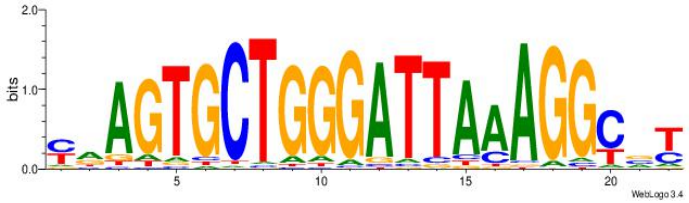
Alignment:

```
ABGCCTTTAATCCCAGCACTHR
--RRTTAAYSSRAGCARY----
```

Original motif Consensus sequence: ABGCCTTTAATCCCAGCACTHR



Reverse complement motif Consensus sequence: MHAGTGCTGGGATTAAAGGCBT

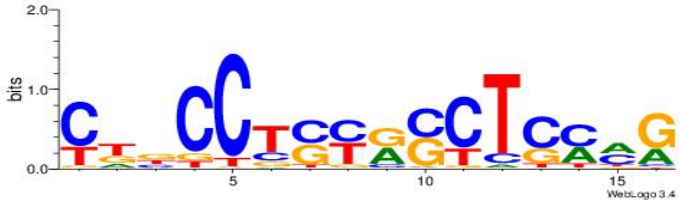


Dataset #:	1
Motif ID:	83
Motif name:	C083
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	16
Similarity score:	0.0450232

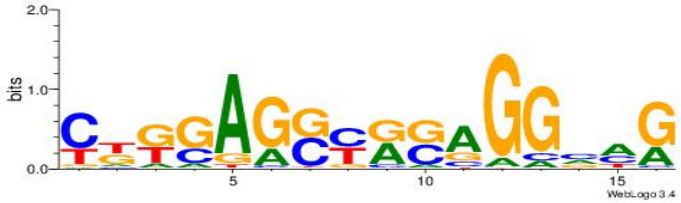
Alignment:

CKBCCTSYRSCTCMMG
MKTGCTKSSMTTAAMK

Original motif Consensus sequence: CKBCCTSYRSCTCMMG



Reverse complement motif Consensus sequence: CYRGAGSMKSAGGBRG

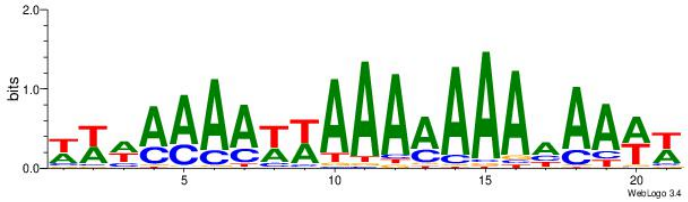


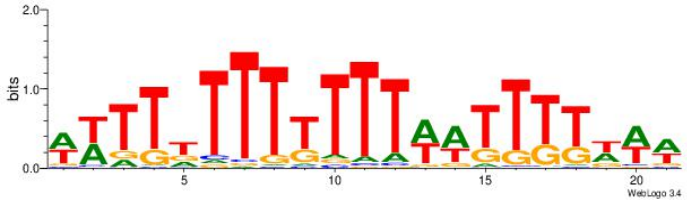
Dataset #:	1
Motif ID:	10
Motif name:	C010
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	16
Similarity score:	0.0471925

Alignment:
WWTTTTTTTTTTWWTTTTWWW
-----MKTGCTKSSMTTAAMK

Original motif Consensus sequence: WWWAAAAWWAAAAAAAAAWW

Reverse complement motif Consensus sequence: WWTTTTTTTTTTWWTTTTWWW



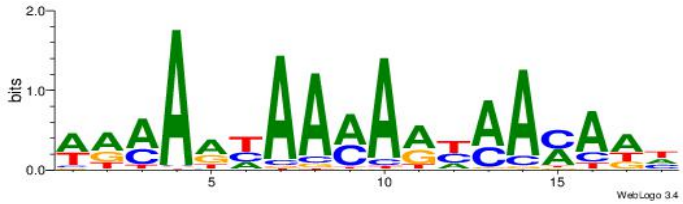


Dataset #:	1
Motif ID:	57
Motif name:	C057
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	16
Similarity score:	0.0507931

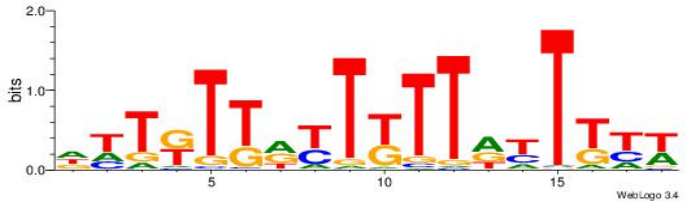
Alignment:

```
HWTRTTMKTYTTMKTYKW
--MKTGCTKSSMTTAAMK
```

Original motif Consensus sequence: WRMARYAAMARYAAMAWH



Reverse complement motif Consensus sequence: HWTRTTMKTYTTMKTYKW



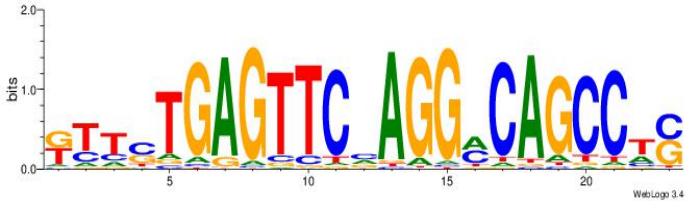
Dataset #:	1

Motif ID:	7
Motif name:	C007
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	8
Number of overlap:	16
Similarity score:	0.0537183

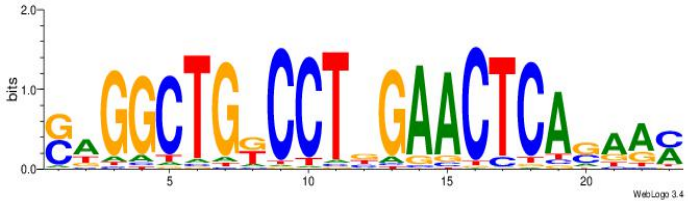
Alignment:

```
KTTSTGAGTTCVAGGMCAGCCTS
RRTTAAYSSRAGCARY-------
```

Original motif Consensus sequence: KTTSTGAGTTCVAGGMCAGCCTS



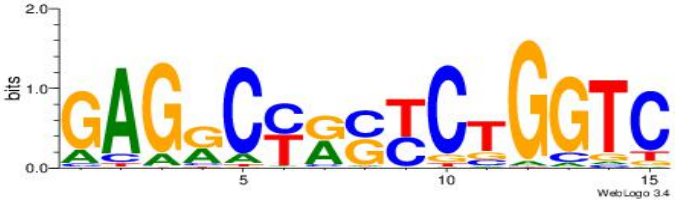
Reverse complement motif Consensus sequence: SAGGCTGYCCTVGAACTCASAAY



Dataset #: 1 Motif ID: 144 Motif name: C144

Original motif Consensus sequence: GACCAGRSYRGYCTC

Reverse complement motif Consensus sequence: GAGKCKKSKCTGG



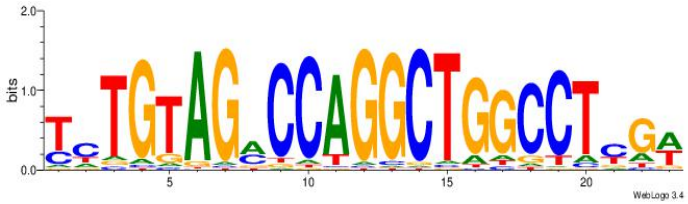
Best Matches for Motif ID 144 (Highest to Lowest)

Dataset #:	1
Motif ID:	5
Motif name:	C005
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3
Number of overlap:	15
Similarity score:	0.0065429

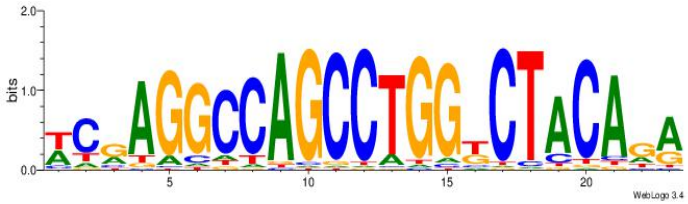
Alignment:

```
TCTGTAGMCCAGGCTGGCCTYGW
------GACCAGRSYRGYCTC--
```

Original motif Consensus sequence: TCTGTAGMCCAGGCTGGCCTYGW



Reverse complement motif Consensus sequence: WCKAGGCCAGCCTGGYCTACAGA

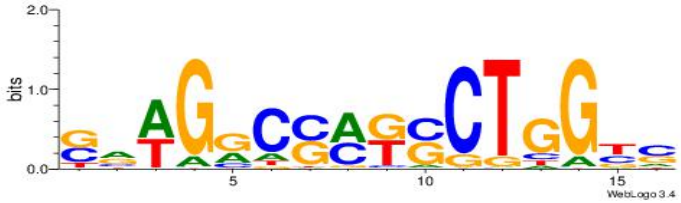


Dataset #:	1
Motif ID:	126
Motif name:	C126
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif

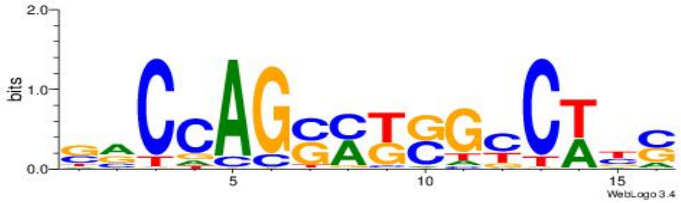
Direction:	Forward
Position number:	1
Number of overlap:	15
Similarity score:	0.019929

Alignment:
SVWGRCSMKSCTGGYS
GAGKCKKSKCTGGTC-

Original motif Consensus sequence: SVWGRCSMKSCTGGYS



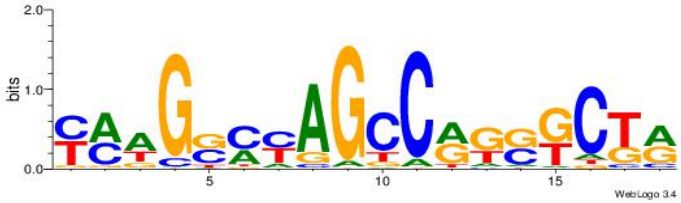
Reverse complement motif Consensus sequence: SMCCAGSYYSGMCWBS



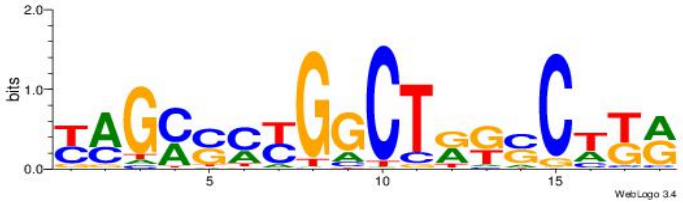
Dataset #:	1
Motif ID:	73
Motif name:	C073
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	4
Number of overlap:	15
Similarity score:	0.033236

Alignment:
KAGYSYKGGCTKRSCWYK
GAGKCKKSKCTGGTC---

Original motif Consensus sequence: YMWGSMYAGCCRKSKCTR



Reverse complement motif Consensus sequence: KAGYSYKGGCTKRSCWYK

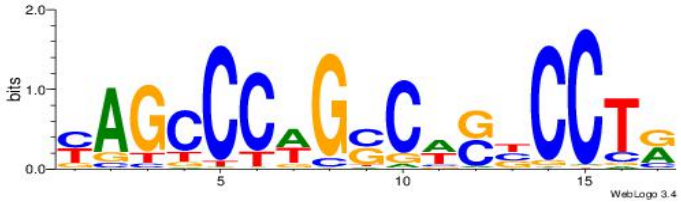


Dataset #:	1
Motif ID:	122
Motif name:	C122
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	15
Similarity score:	0.0344934

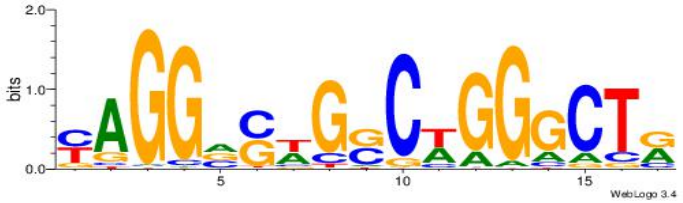
Alignment:

```
MAGGVSWGSCWGGGCTK
GAGKCKKSKCTGGTC--
```

Original motif Consensus sequence: YAGCCCWGSCWSBCCTR



Reverse complement motif Consensus sequence: MAGGVSWGSCWGGGCTK

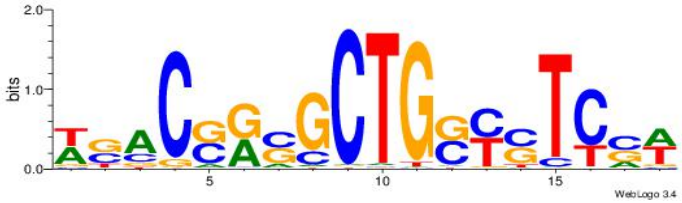


Dataset #:	1
Motif ID:	124
Motif name:	C124
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	15
Similarity score:	0.0354076

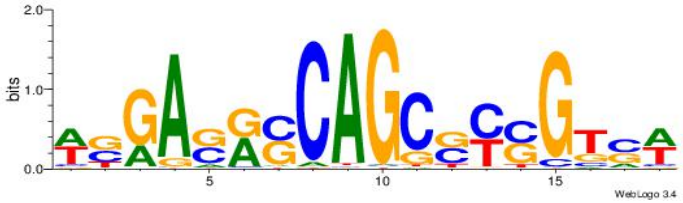
Alignment:

```
WSACSRSGCTGSYSTCSW
-GACCAGRSYRGYCTC--
```

Original motif Consensus sequence: WSACSRSGCTGSYSTCSW



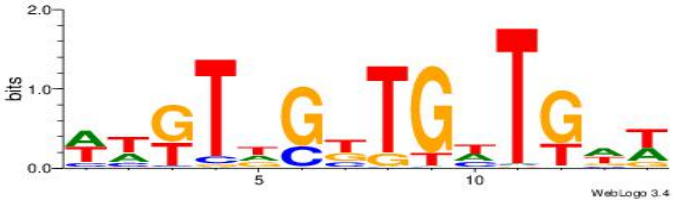
Reverse complement motif Consensus sequence: WSGASKSCAGCSMSGTSW



Dataset #: 1 Motif ID: 145 Motif name: C145

Original motif Consensus sequence: WWCADCAMCHAMWW

Reverse complement motif Consensus sequence: WWRTHGYTGDTGWW



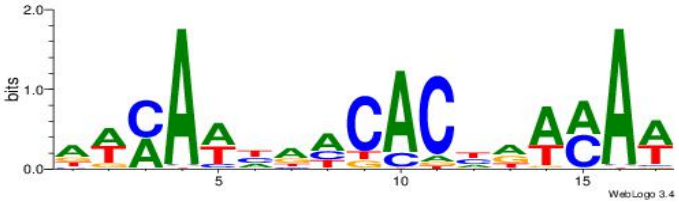
Best Matches for Motif ID 145 (Highest to Lowest)

Dataset #:	1
Motif ID:	133
Motif name:	C133
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	4
Number of overlap:	14
Similarity score:	0.0243182

Alignment:

```
AWMAWHDACACHRWMAW
WWCADCAMCHAMWW---
```

Original motif Consensus sequence: AWMAWHDACACHRWMAW



Reverse complement motif Consensus sequence: WTYWKHGTGTDHWTRWT

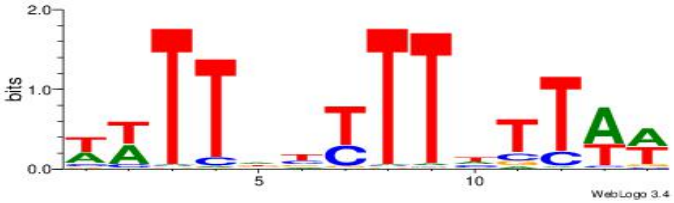
Dataset #:	1
Motif ID:	131
Motif name:	C131
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	14
Similarity score:	0.0271953

Alignment:

```
WWAADAARVHAAWW
WWCADCAMCHAMWW
```

Original motif Consensus sequence: WWAADAARVHAAWW

Reverse complement motif Consensus sequence: WWTTHBKTTDTTW

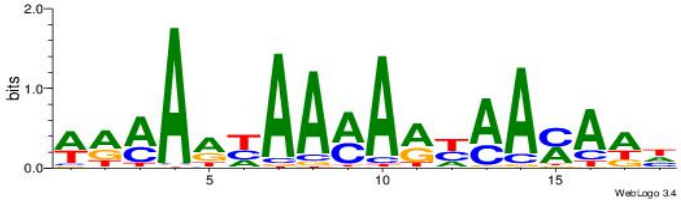


Dataset #:	1
Motif ID:	57
Motif name:	C057
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	2
Number of overlap:	14

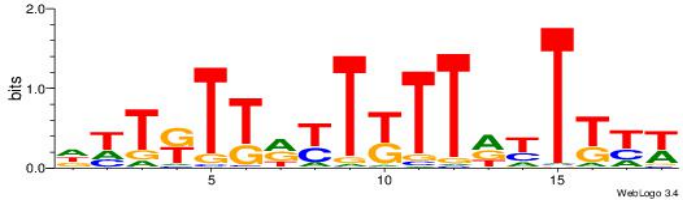
Similarity score: 0.0274615

Alignment:
WRMARYAAMARYAAMAWH
---WWCADCAMCHAMWW-

Original motif Consensus sequence: WRMARYAAMARYAAMAWH



Reverse complement motif Consensus sequence: HWTRTTMKTYTTMKTYKW

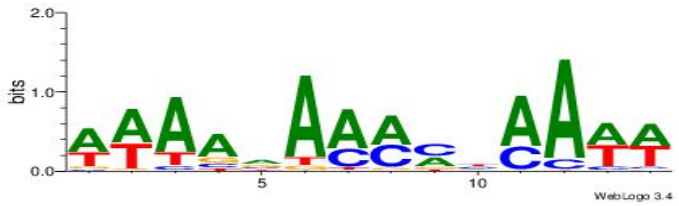


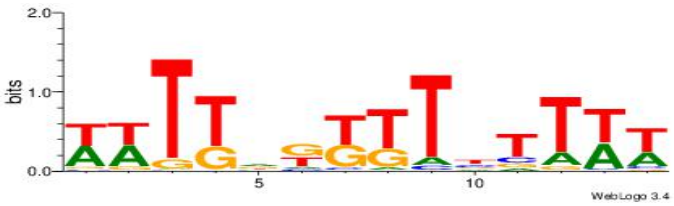
Dataset #: 1
Motif ID: 80
Motif name: C080
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 14
Similarity score: 0.0303459

Alignment:
WWAAVAAMMHAAWW
WWCADCAMCHAMWW

Original motif Consensus sequence: WWAAVAAMMHAAWW

Reverse complement motif Consensus sequence: WWTTHRYTTBTTW

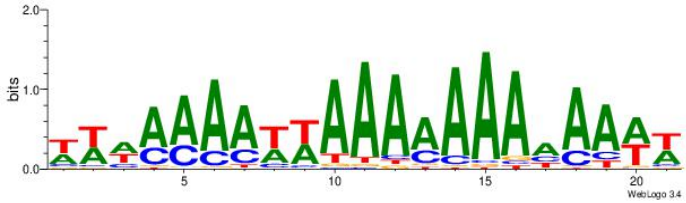




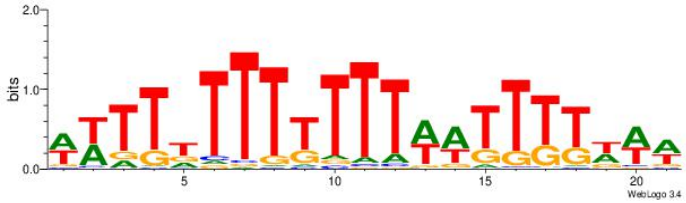
Dataset #: 1
Motif ID: 10
Motif name: C010
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 14
Similarity score: 0.0314437

Alignment:
WWWAAAAWWAAAAAAAAAAWW
-------WWCADCAMCHAMWW

Original motif Consensus sequence: WWWAAAAWWAAAAAAAAAAWW

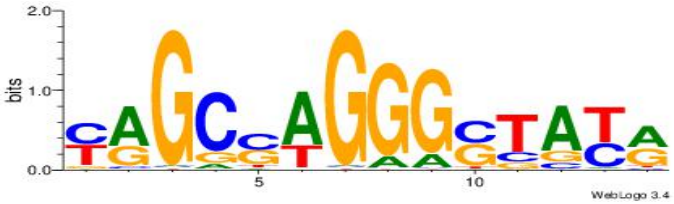


Reverse complement motif Consensus sequence: WWTTTTTTTTTTWWTTTTWWW

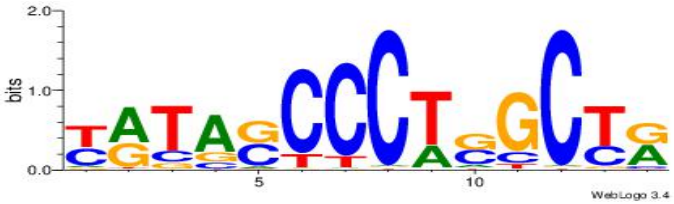


Dataset #: 1 Motif ID: 146 Motif name: C146

Original motif Consensus sequence: YRGCSAGGGSTAYR



Reverse complement motif Consensus sequence: KMTASCCCTSGCK



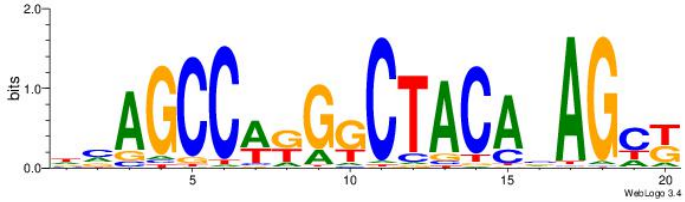
Best Matches for Motif ID 146 (Highest to Lowest)

Dataset #:	1
Motif ID:	15
Motif name:	C015
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	6
Number of overlap:	14
Similarity score:	0.0362427

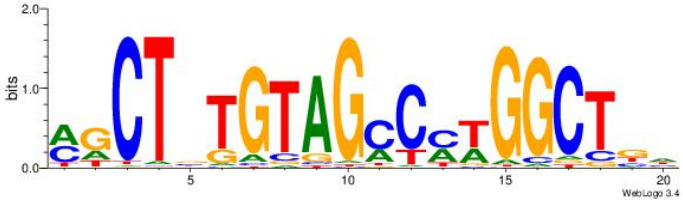
Alignment:

```
DVAGCCWKGGCTACAVAGCK
-YRGCSAGGGSTAYR-----
```

Original motif Consensus sequence: DVAGCCWKGGCTACAVAGCK



Reverse complement motif Consensus sequence: RGCTVTGTAGCCYWGGCTVD

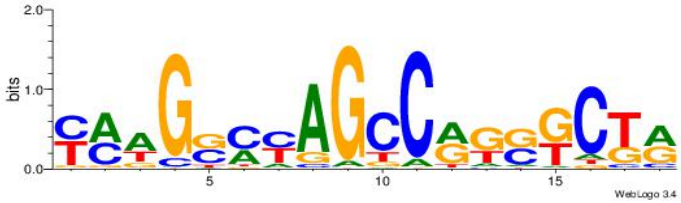


Dataset #:	1
Motif ID:	73
Motif name:	C073
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.0492759

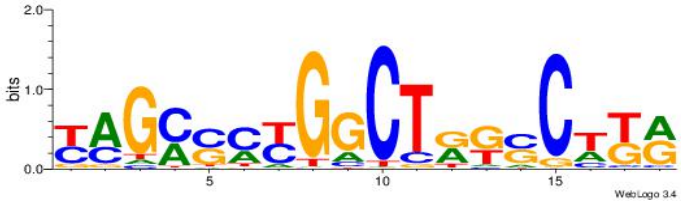
Alignment:

```
KAGYSYKGGCTKRSCWYK
----YRGCSAGGGSTAYR
```

Original motif Consensus sequence: YMWGSMYAGCCRKSKCTR



Reverse complement motif Consensus sequence: KAGYSYKGGCTKRSCWYK

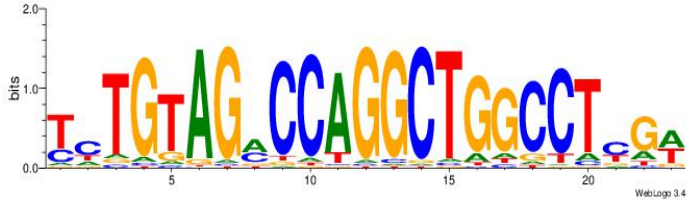


Dataset #:	1
Motif ID:	5
Motif name:	C005
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	3

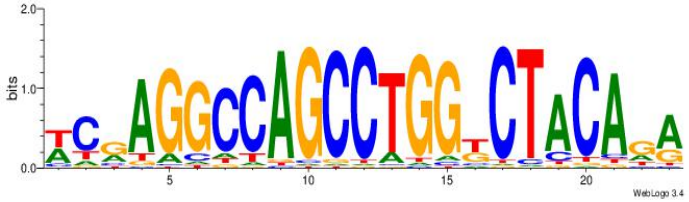
Number of overlap: 14
Similarity score: 0.0495866

Alignment:
TCTGTAGMCCAGGCTGGCCTYGW
-------KMTASCCCTSGCKK--

Original motif Consensus sequence: TCTGTAGMCCAGGCTGGCCTYGW



Reverse complement motif Consensus sequence: WCKAGGCCAGCCTGGYCTACAGA

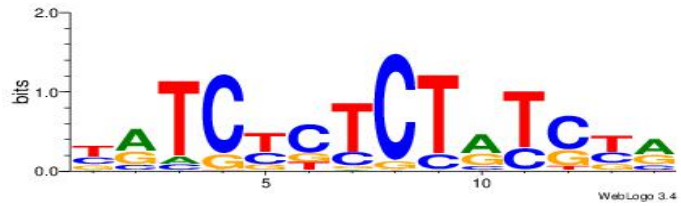


Dataset #: 1
Motif ID: 78
Motif name: C078
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 1
Number of overlap: 14
Similarity score: 0.050766

Alignment:
YRGAYAGAGRGAYR
YRGCSAGGGSTAYR

Original motif Consensus sequence: YRGAYAGAGRGAYR

Reverse complement motif Consensus sequence: KMTCKCTCTMTCK

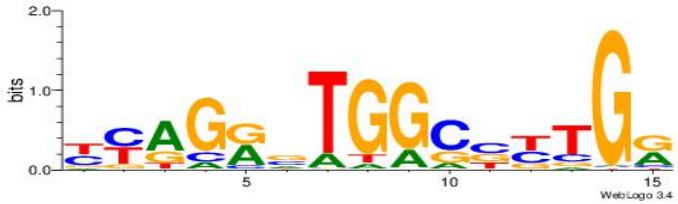


Dataset #:	1
Motif ID:	153
Motif name:	C153
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	14
Similarity score:	0.0524832

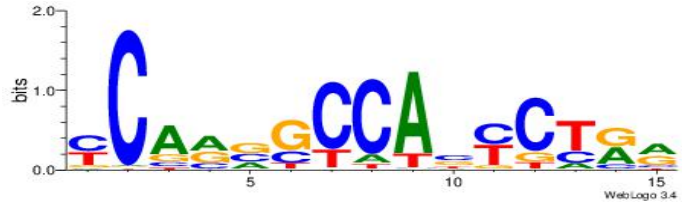
Alignment:

```
YYAGRVTGGCBYTGR
-YRGCSAGGGSTAYR
```

Original motif Consensus sequence: YYAGRVTGGCBYTGR

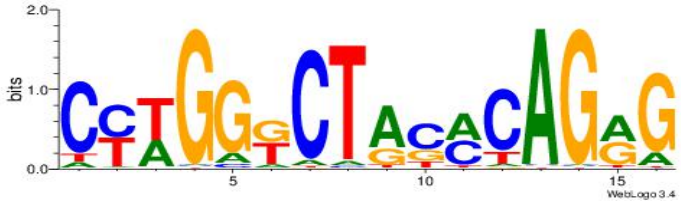


Reverse complement motif Consensus sequence: MCAMBGCCAVMCTKM

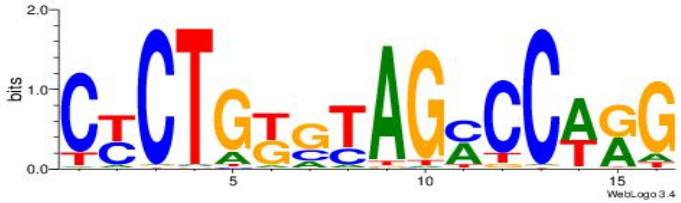


Dataset #: 1 Motif ID: 147 Motif name: C147

Original motif Consensus sequence: CYWGGKCTACMCAGRG



Reverse complement motif Consensus sequence: CKCTGYGTAGYCCWKG



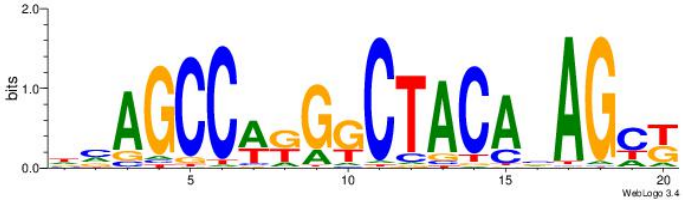
Best Matches for Motif ID 147 (Highest to Lowest)

Dataset #:	1
Motif ID:	15
Motif name:	C015
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.0115213

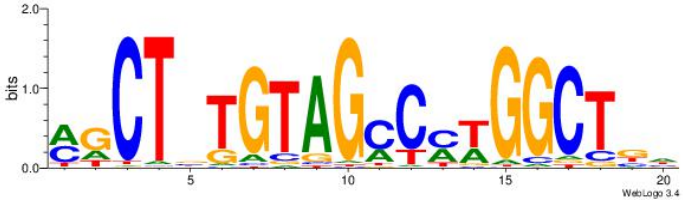
Alignment:

```
RGCTVTGTAGCCYWGGCTVD
CKCTGYGTAGYCCWKG----
```

Original motif Consensus sequence: DVAGCCWKGGCTACAVAGCK



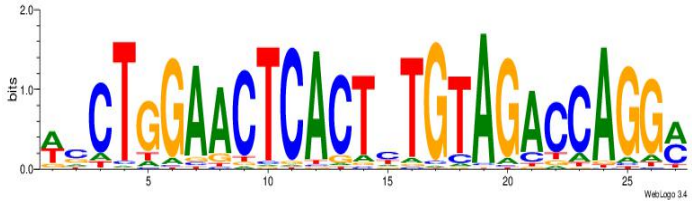
Reverse complement motif Consensus sequence: RGCTVTGTAGCCYWGGCTVD



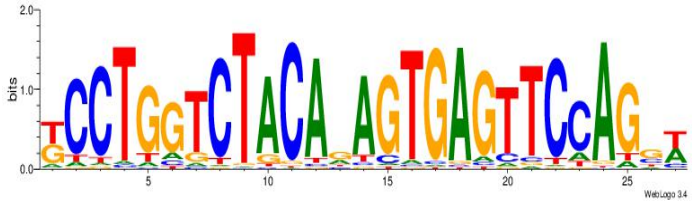
Dataset #: 1
Motif ID: 13
Motif name: C013
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Backward
Position number: 11
Number of overlap: 16
Similarity score: 0.0192602

Alignment:
WVCTGGAACTCACTHTGTAGACCAGGM
-CKCTGYGTAGYCCWKG----------

Original motif Consensus sequence:
WVCTGGAACTCACTHTGTAGACCAGGM



Reverse complement motif Consensus sequence:
YCCTGGTCTACADAGTGAGTTCCAGVW

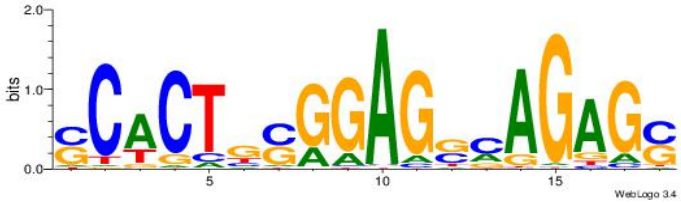


Dataset #: 1
Motif ID: 34
Motif name: C034
Matching format of first motif: Reverse Complement
Matching format of second motif: Original Motif
Direction: Forward

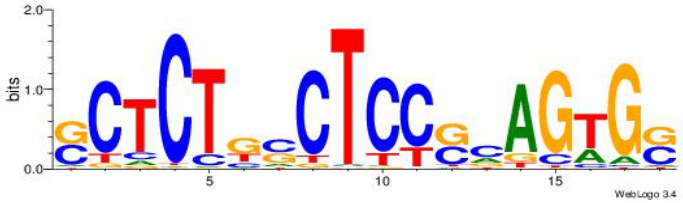
Position number: 2
Number of overlap: 16
Similarity score: 0.044301

Alignment:
SCACTGSGGAGSMAGAGS
-CKCTGYGTAGYCCWKG-

Original motif Consensus sequence: SCACTGSGGAGSMAGAGS



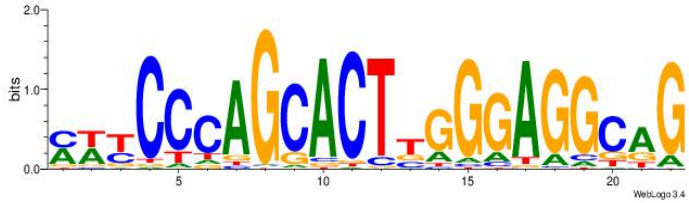
Reverse complement motif Consensus sequence: SCTCTRSCTCCSCAGTGS



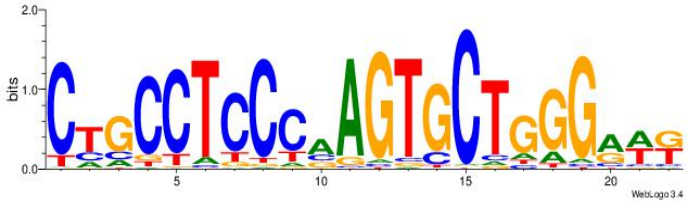
Dataset #: 1
Motif ID: 19
Motif name: C019
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 5
Number of overlap: 16
Similarity score: 0.0529944

Alignment:
CTGCCTCCCAAGTGCTGGGMWR
--CKCTGYGTAGYCCWKG----

Original motif Consensus sequence: MWYCCCAGCACTTGGGAGGCAG



Reverse complement motif Consensus sequence: CTGCCTCCCAAGTGCTGGGMWR

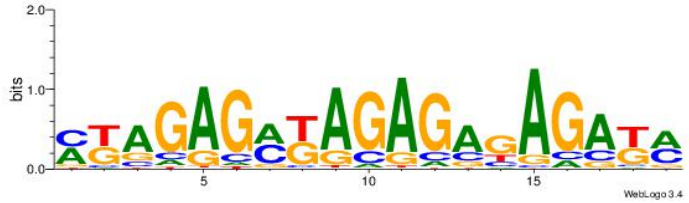


Dataset #:	1
Motif ID:	12
Motif name:	C012
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.0557861

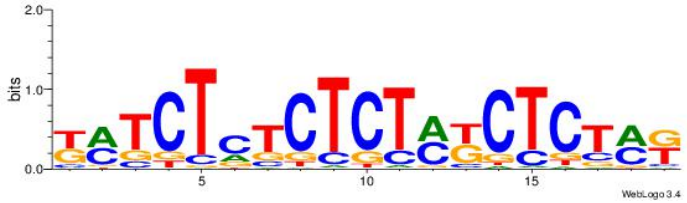
Alignment:

```
MKAGAGMKAGAGAGAGAKM
CYWGGKCTACMCAGRG---
```

Original motif Consensus sequence: MKAGAGMKAGAGAGAGAKM

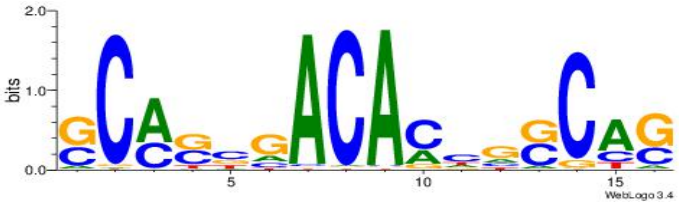


Reverse complement motif Consensus sequence: YRTCTCTCTCTRYCTCTRR

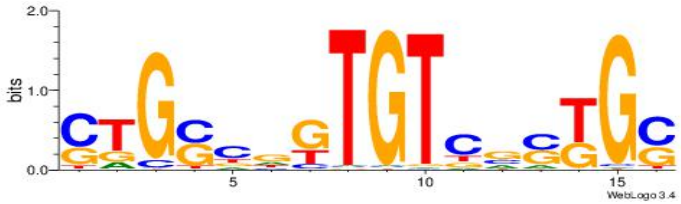


Dataset #: 1 **Motif ID: 148** **Motif name: C148**

Original motif Consensus sequence: SCMSBGACACHGSCAS



Reverse complement motif Consensus sequence: STGSCDGTGTCBSYGS



Best Matches for Motif ID 148 (Highest to Lowest)

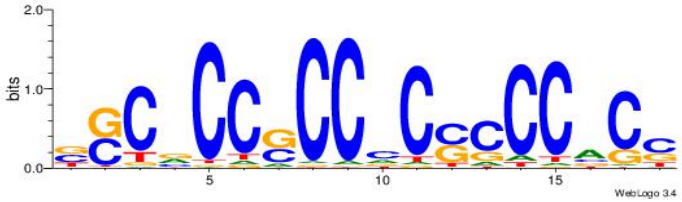
Dataset #:	1
Motif ID:	20
Motif name:	C020
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	16
Similarity score:	0.047924

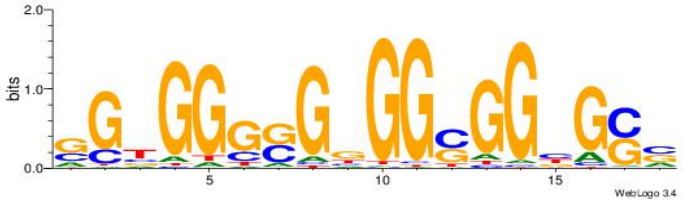
Alignment:

```
BSCVCCSCCVCSCCCACS
-SCMSBGACACHGSCAS-
```

Original motif Consensus sequence: BSCVCCSCCVCSCCCACS

Reverse complement motif Consensus sequence: SGTGGGSGVGGSGGVGSB

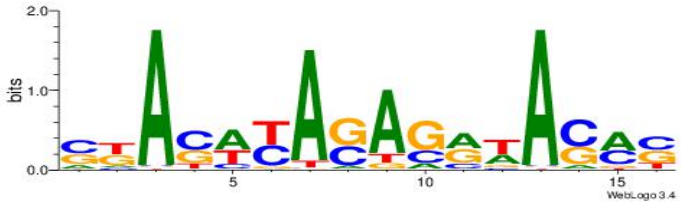




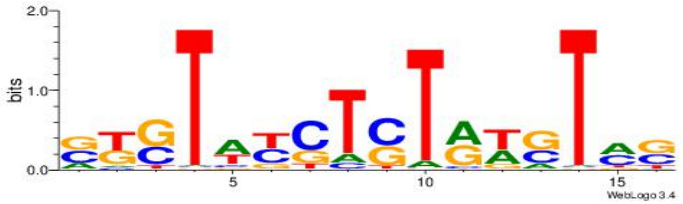
Dataset #: 1
Motif ID: 125
Motif name: C125
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 16
Similarity score: 0.0517915

Alignment:
SYSTWKCTSTMWSTRS
STGSCDGTGTCBSYGS

Original motif Consensus sequence: SKASWYASAGRWASMS



Reverse complement motif Consensus sequence: SYSTWKCTSTMWSTRS



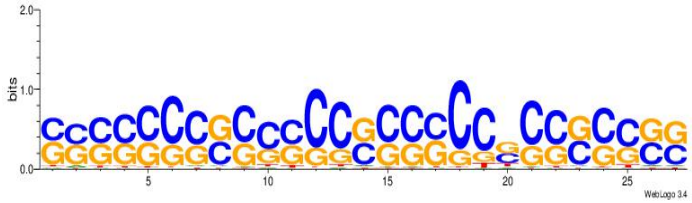
Dataset #: 1

Motif ID:	4
Motif name:	C004
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	5
Number of overlap:	16
Similarity score:	0.054196

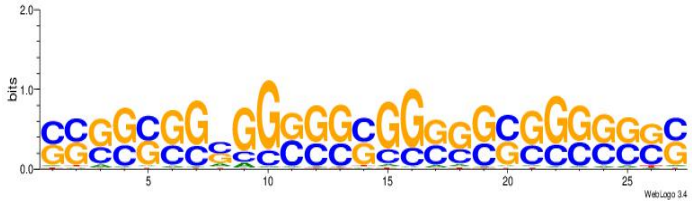
Alignment:

```
SSSSSCSSSSSCCSSSSCCSCSSSSSS
----SCMSBGACACHGSCAS-------
```

Original motif Consensus sequence:
SSSSSCSSSSSCCSSSSCCSCSSSSSS



Reverse complement motif Consensus sequence:
SSSSSSGSGGSSSSGGSSSSSGSSSSS

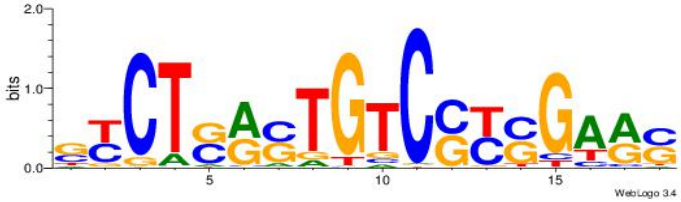


Dataset #:	1
Motif ID:	128
Motif name:	C128
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	1
Number of overlap:	16

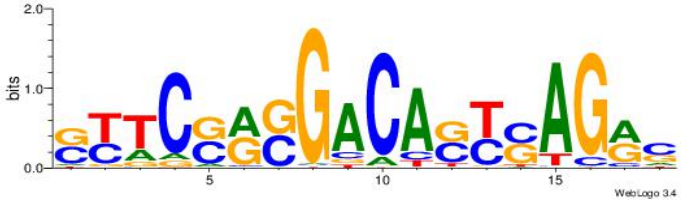
Similarity score: 0.0545529

Alignment:
SKTCSMSGACASKSAGMS
SCMSBGACACHGSCAS--

Original motif Consensus sequence: SYCTSRSTGTCSYSGARS



Reverse complement motif Consensus sequence:
SKTCSMSGACASKSAGMS

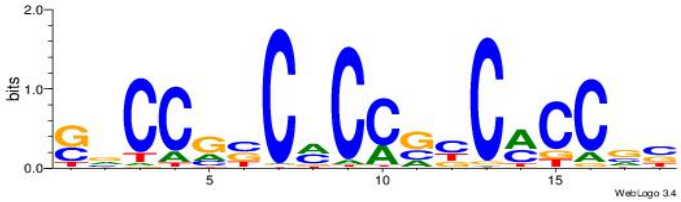


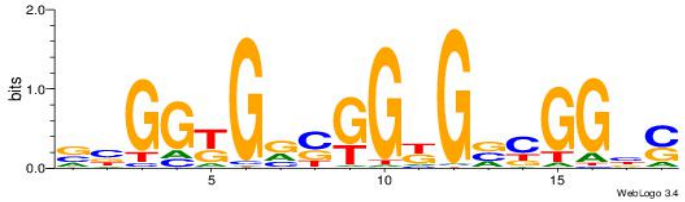
Dataset #: 1
Motif ID: 37
Motif name: C037
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 2
Number of overlap: 16
Similarity score: 0.056153

Alignment:
SVCCGBCMCCSYCMCCVB
-SCMSBGACACHGSCAS-

Original motif Consensus sequence: SVCCGBCMCCSYCMCCVB

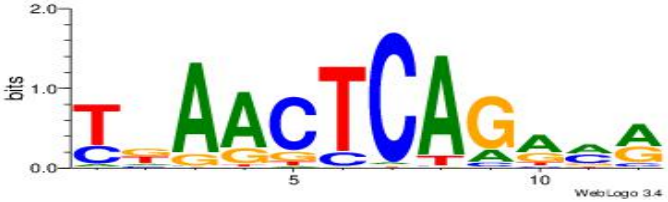
Reverse complement motif Consensus sequence:
BVGGYGKSGGYGBCGGVS





Dataset #: 1 Motif ID: 149 Motif name: C149

Original motif Consensus sequence: TKAACTCAGRMR



Reverse complement motif Consensus sequence: KYKCTGAGTTYA

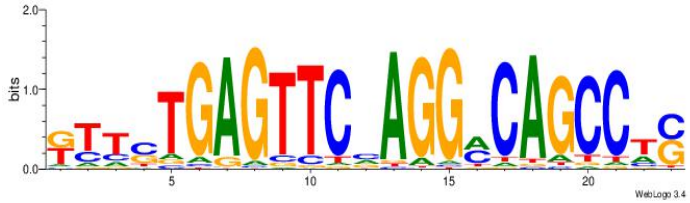
Best Matches for Motif ID 149 (Highest to Lowest)

Dataset #:	1
Motif ID:	7
Motif name:	C007
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	12
Number of overlap:	12
Similarity score:	0.00192863

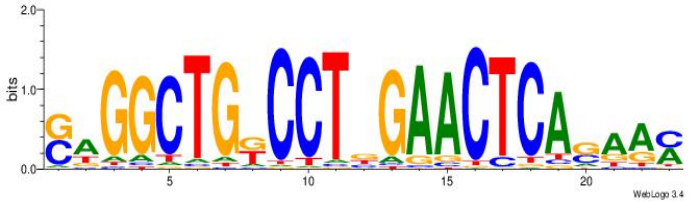
Alignment:

```
SAGGCTGYCCTVGAACTCASAAY
TKAACTCAGRMR-----------
```

Original motif Consensus sequence: KTTSTGAGTTCVAGGMCAGCCTS



Reverse complement motif Consensus sequence: SAGGCTGYCCTVGAACTCASAAY

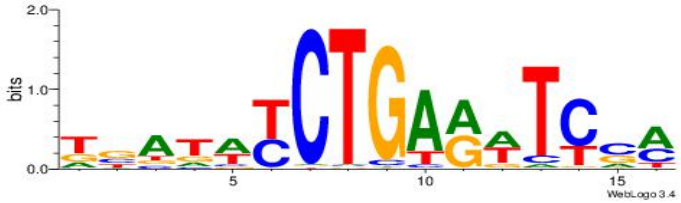


Dataset #:	1
Motif ID:	111
Motif name:	C111
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	12
Similarity score:	0.0163139

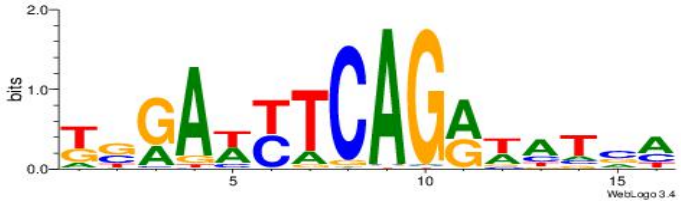
Alignment:

```
YSGAWKTCAGMWATBA
---TKAACTCAGRMR-
```

Original motif Consensus sequence: TBATWYCTGARWTCSM



Reverse complement motif Consensus sequence: YSGAWKTCAGMWATBA

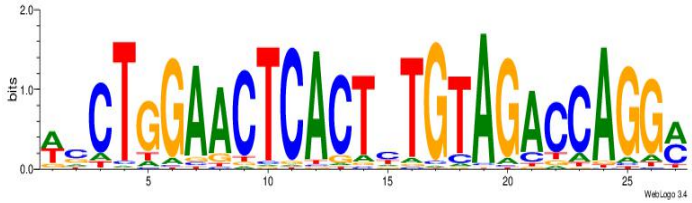


Dataset #:	1
Motif ID:	13
Motif name:	C013
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	12
Number of overlap:	12
Similarity score:	0.0390326

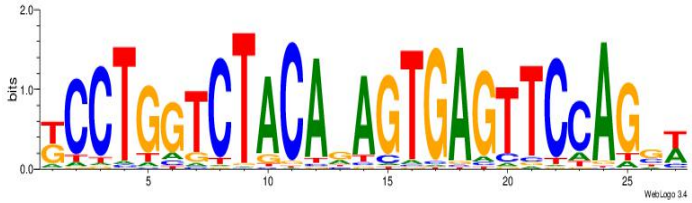
Alignment:

```
YCCTGGTCTACADAGTGAGTTCCAGVW
-----------KYKCTGAGTTYA----
```

Original motif Consensus sequence:
WVCTGGAACTCACTHTGTAGACCAGGM



Reverse complement motif Consensus sequence:
YCCTGGTCTACADAGTGAGTTCCAGVW

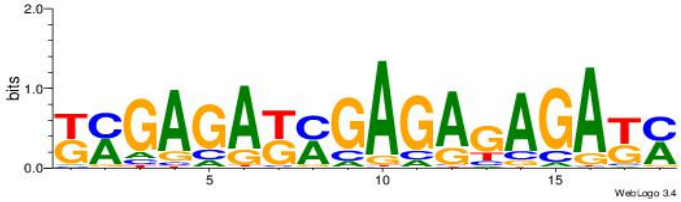


Dataset #:	1
Motif ID:	11
Motif name:	C011
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	5

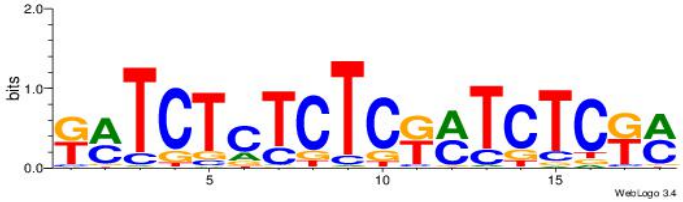
Number of overlap: 12
Similarity score: 0.0416873

Alignment:
RRTCTCTCTCRRTCTCRR
----KYKCTGAGTTYA--

Original motif Consensus sequence: KMGAGAKMGAGAGAGAKM



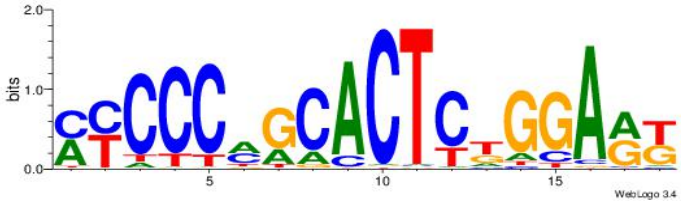
Reverse complement motif Consensus sequence: RRTCTCTCTCRRTCTCRR



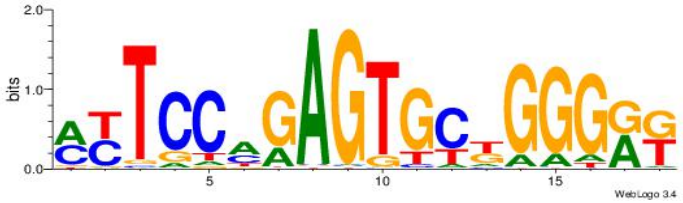
Dataset #: 1
Motif ID: 99
Motif name: C099
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Forward
Position number: 6
Number of overlap: 12
Similarity score: 0.0437108

Alignment:
MYCCCMGCACTCKGGARK
-----TKAACTCAGRMR-

Original motif Consensus sequence: MYCCCMGCACTCKGGARK



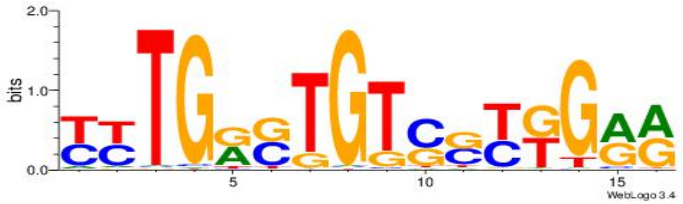
Reverse complement motif Consensus sequence: RKTCCRGAGTGCYGGGKR



Dataset #: 1 Motif ID: 150 Motif name: C150

Original motif Consensus sequence: YYCMRSSACASYCARR

Reverse complement motif Consensus sequence: KKTGKSTGTSSKRGMM

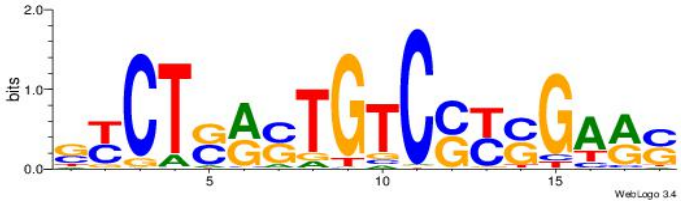


Best Matches for Motif ID 150 (Highest to Lowest)

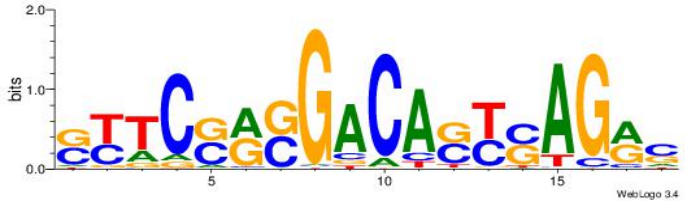
Dataset #:	1
Motif ID:	128
Motif name:	C128
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	16
Similarity score:	0.0371715

Alignment:
SYCTSRSTGTCSYSGARS
-KKTGKSTGTSSKRGMM-

Original motif Consensus sequence: SYCTSRSTGTCSYSGARS



Reverse complement motif Consensus sequence: SKTCSMSGACASKSAGMS

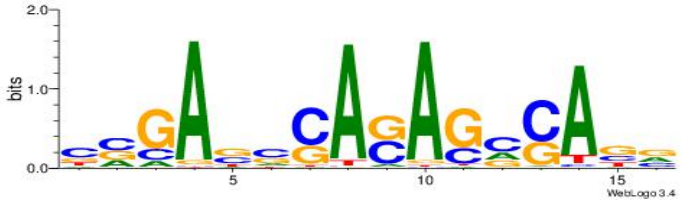


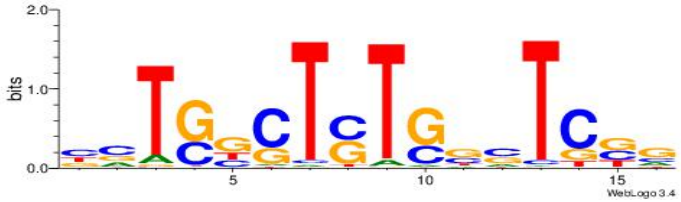
Dataset #:	1
Motif ID:	28
Motif name:	C028
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	16
Similarity score:	0.0497147

Alignment:
BVGASSCASAGVSABV
YYCMRSSACASYCARR

Original motif Consensus sequence: BVGASSCASAGVSABV

Reverse complement motif Consensus sequence: VBTSVCTSTGSSTCVB

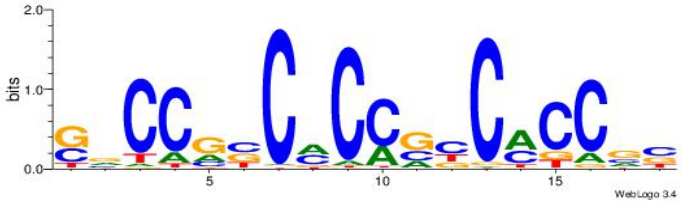




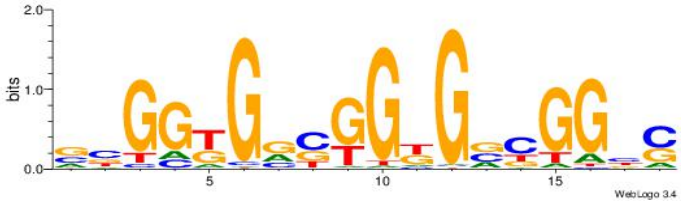
Dataset #: 1
Motif ID: 37
Motif name: C037
Matching format of first motif: Reverse Complement
Matching format of second motif: Reverse Complement
Direction: Backward
Position number: 1
Number of overlap: 16
Similarity score: 0.0545002

Alignment:
BVGGYGKSGGYGBCGGVS
--KKTGKSTGTSSKRGMM

Original motif Consensus sequence: SVCCGBCMCCSYCMCCVB



Reverse complement motif Consensus sequence: BVGGYGKSGGYGBCGGVS



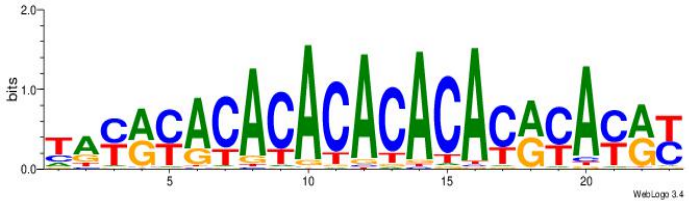
Dataset #: 1

Motif ID:	2
Motif name:	C002
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	1
Number of overlap:	16
Similarity score:	0.0550247

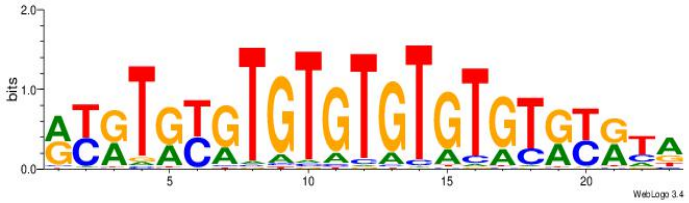
Alignment:

```
MKKTKKGTGTGTGTGTGTKKKTA
-------KKTGKSTGTSSKRGMM
```

Original motif Consensus sequence: TAYRYACACACACACACRYAYRY



Reverse complement motif Consensus sequence: MKKTKKGTGTGTGTGTGTKKKTA

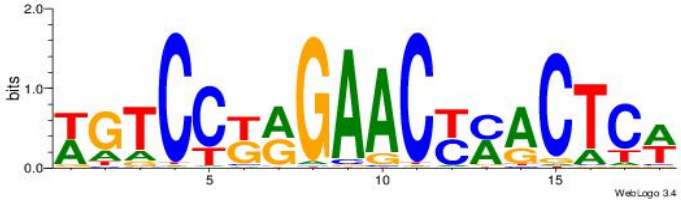


Dataset #:	1
Motif ID:	42
Motif name:	C042
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	16

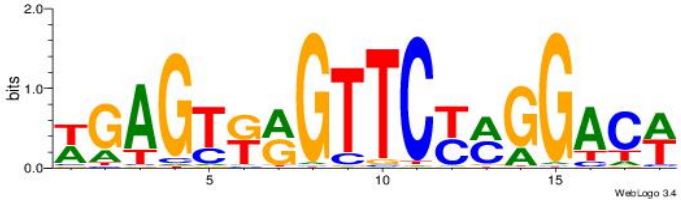
Similarity score: 0.0597653

Alignment:
WGAGTRMGTTCKRGGACW
KKTGKSTGTSSKRGMM--

Original motif Consensus sequence: WGTCCKRGAACYMACTCW

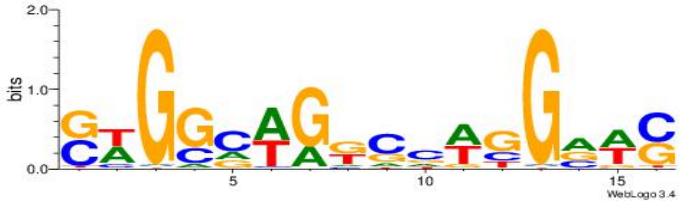


Reverse complement motif Consensus sequence: WGAGTRMGTTCKRGGACW

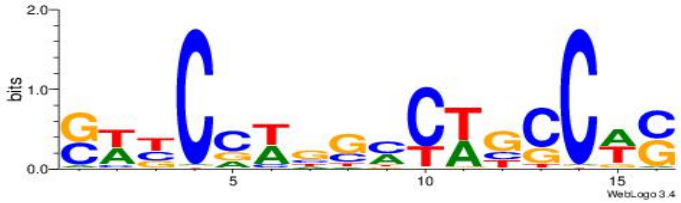


Dataset #: 1 Motif ID: 151 Motif name: C151

Original motif Consensus sequence: SWGGCWGKCCWGGVWS



Reverse complement motif Consensus sequence: SWBCCWGGYCWGCCWS



Best Matches for Motif ID 151 (Highest to Lowest)

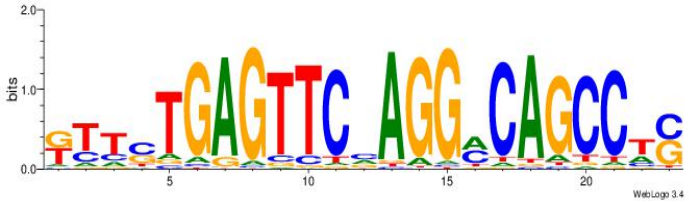
Dataset #:	1
Motif ID:	7
Motif name:	C007
Matching format of first motif:	Original Motif

Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	8
Number of overlap:	16
Similarity score:	0.0326309

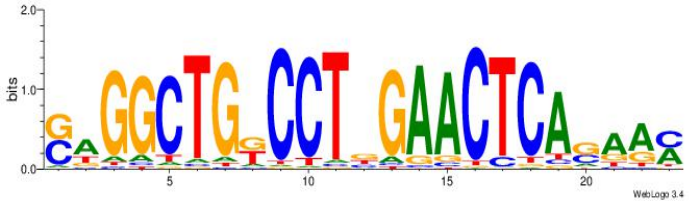
Alignment:

```
SAGGCTGYCCTVGAACTCASAAY
-------SWGGCWGKCCWGGVWS
```

Original motif Consensus sequence: KTTSTGAGTTCVAGGMCAGCCTS



Reverse complement motif Consensus sequence: SAGGCTGYCCTVGAACTCASAAY

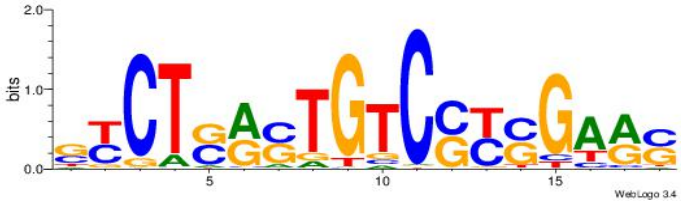


Dataset #:	1
Motif ID:	128
Motif name:	C128
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Backward
Position number:	1
Number of overlap:	16
Similarity score:	0.0452604

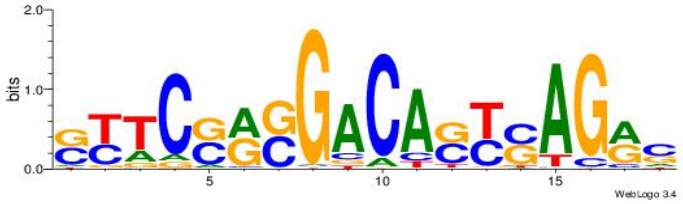
Alignment:

SYCTSRSTGTCSYSGARS
--SWGGCWGKCCWGGVWS

Original motif Consensus sequence: SYCTSRSTGTCSYSGARS



Reverse complement motif Consensus sequence: SKTCSMSGACASKSAGMS

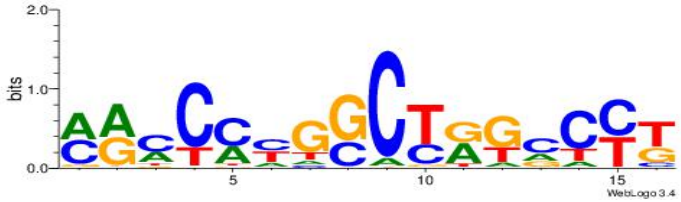


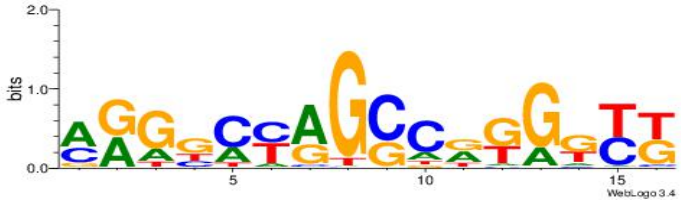
Dataset #:	1
Motif ID:	96
Motif name:	C096
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.0486407

Alignment:
MRMCMYGSCYRGCCYK
SWBCCWGGYCWGCCWS

Original motif Consensus sequence: MRMCMYGSCYRGCCYK

Reverse complement motif Consensus sequence: RKGGCMMGSCKRGRKY

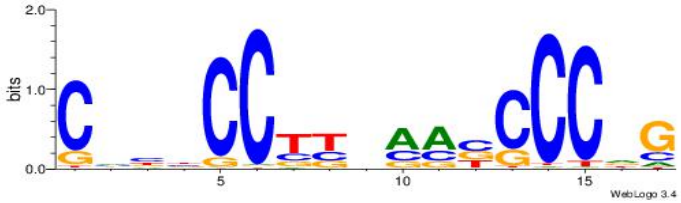




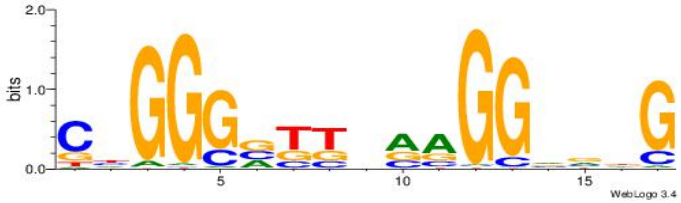
Dataset #: 1
Motif ID: 107
Motif name: C107
Matching format of first motif: Original Motif
Matching format of second motif: Reverse Complement
Direction: Forward
Position number: 2
Number of overlap: 16
Similarity score: 0.0508318

Alignment:
CDGGGBTTVMAGGVBHG
-SWGGCWGKCCWGGVWS

Original motif Consensus sequence: CHBBCCTYBAABCCCDG



Reverse complement motif Consensus sequence: CDGGGBTTVMAGGVBHG



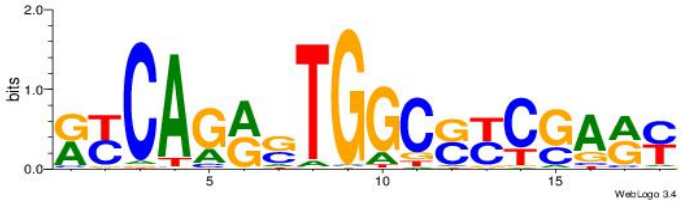
Dataset #: 1

Motif ID:	92
Motif name:	C092
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	3
Number of overlap:	16
Similarity score:	0.0536453

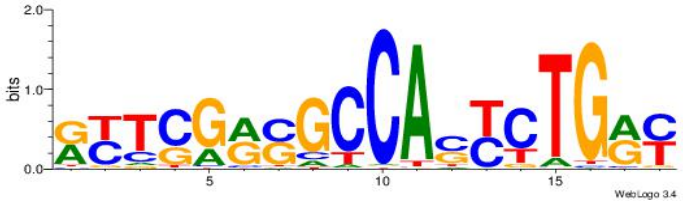
Alignment:

```
RYCAGRSTGGCSYCGARY
--SWGGCWGKCCWGGVWS
```

Original motif Consensus sequence: RYCAGRSTGGCSYCGARY

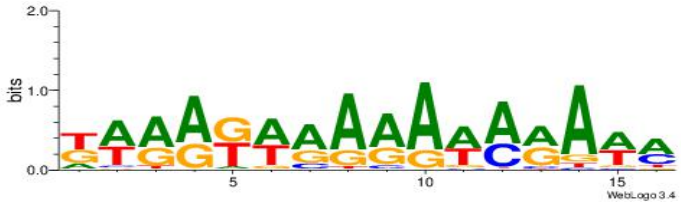


Reverse complement motif Consensus sequence: KKTCGMSGCCASKCTGMM



Dataset #: 1 Motif ID: 152 Motif name: C152

Original motif Consensus sequence: KWRRKWRARAWMRAWM



Reverse complement motif Consensus sequence: YWTKYWTKTKWYKKWR

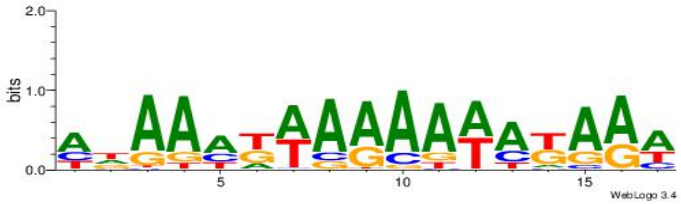
Best Matches for Motif ID 152 (Highest to Lowest)

Dataset #:	1
Motif ID:	79
Motif name:	C079
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	16
Similarity score:	0.0113671

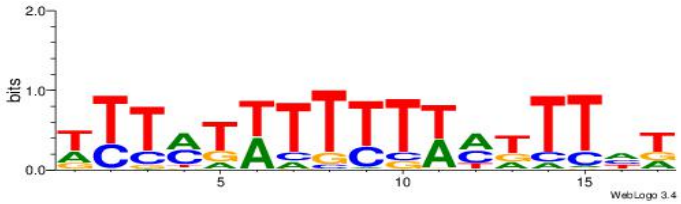
Alignment:

```
ADAAAKWAAAAWAKARW
-KWRRKWRARAWMRAWM
```

Original motif Consensus sequence: ADAAAKWAAAAWAKARW



Reverse complement motif Consensus sequence: WKTRTWTTTTWRTTTDT

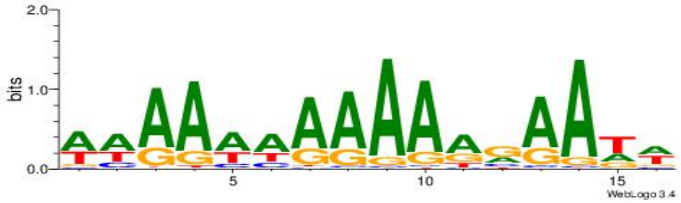


Dataset #:	1
Motif ID:	43
Motif name:	C043
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement

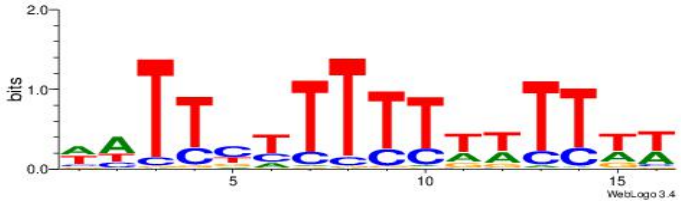
Direction:	Forward
Position number:	1
Number of overlap:	16
Similarity score:	0.0143924

Alignment:
WATTMTTTTTTWTTWW
YWTKYWTKTKWYKKWR

Original motif Consensus sequence: WWAAWAAAAAARAATW



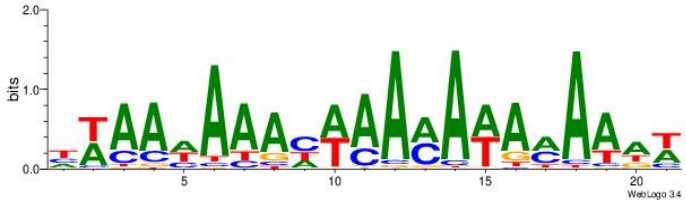
Reverse complement motif Consensus sequence: WATTMTTTTTTWTTWW



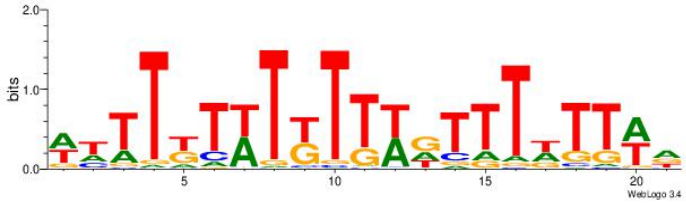
Dataset #:	1
Motif ID:	16
Motif name:	C016
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2
Number of overlap:	16
Similarity score:	0.0283786

Alignment:
WWTTYTWTYTTWDTTTWTTWH
-YWTKYWTKTKWYKKWR----

Original motif Consensus sequence: HWAAWAAAHWAAMAWAMAAWW



Reverse complement motif Consensus sequence: WWTTYTWTYTTWDTTTWTTWH

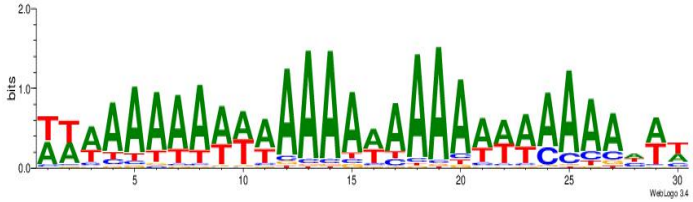


Dataset #:	1
Motif ID:	1
Motif name:	C001
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	6
Number of overlap:	16
Similarity score:	0.0293372

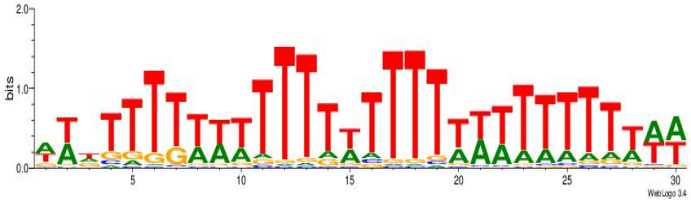
Alignment:

```
WWWAAAAAWWAAAAAWAAAAAWWAAAAHWW
-----KWRRKWRARAWMRAWM---------
```

Original motif Consensus sequence: WWWAAAAAWWAAAAAWAAAAAWWAAAAHWW



Reverse complement motif Consensus sequence: WWHTTTTWWTTTTTWTTTTTWWTTTTTWWW

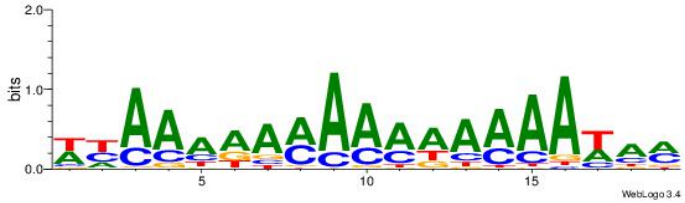


Dataset #:	1
Motif ID:	30
Motif name:	C030
Matching format of first motif:	Reverse Complement
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	3
Number of overlap:	16
Similarity score:	0.0302673

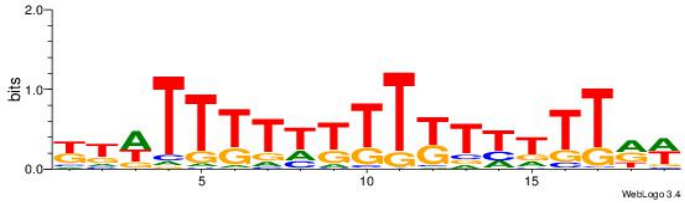
Alignment:

```
YTWTTTTTTTTYTTTTTMW
-YWTKYWTKTKWYKKWR--
```

Original motif Consensus sequence: WYAAAAAMAAAAAAAAWAM



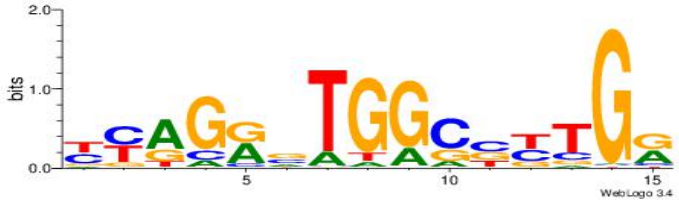
Reverse complement motif Consensus sequence: YTWTTTTTTTTYTTTTTMW

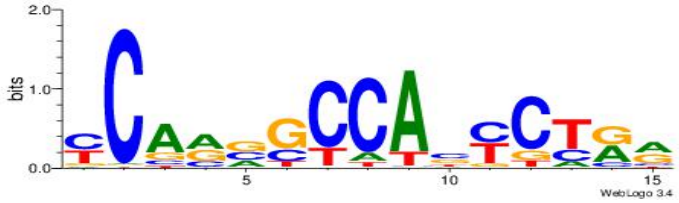


Dataset #: 1 Motif ID: 153 Motif name: C153

Original motif Consensus sequence: YYAGRVTGGCBYTGR

Reverse complement motif Consensus sequence: MCAMBGCCAVMCTKM





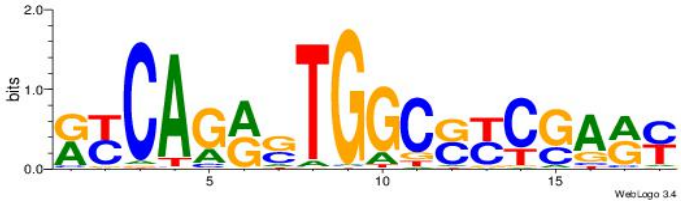
Best Matches for Motif ID 153 (Highest to Lowest)

Dataset #:	1
Motif ID:	92
Motif name:	C092
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	15
Similarity score:	0.00136965

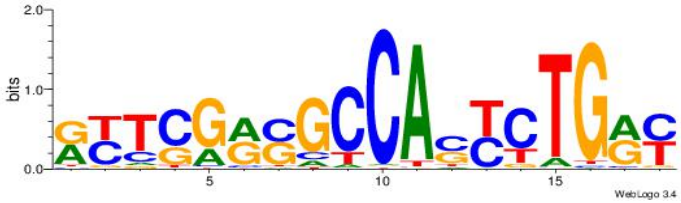
Alignment:

```
RYCAGRSTGGCSYCGARY
-YYAGRVTGGCBYTGR--
```

Original motif Consensus sequence: RYCAGRSTGGCSYCGARY



Reverse complement motif Consensus sequence: KKTCGMSGCCASKCTGMM

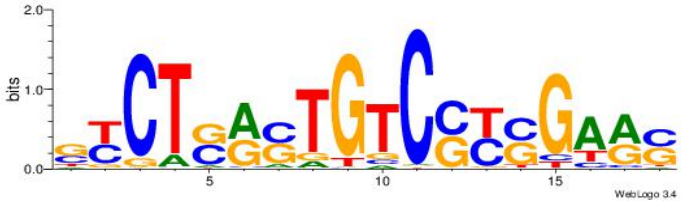


Dataset #:	1
Motif ID:	128
Motif name:	C128
Matching format of first motif:	Original Motif
Matching format of second motif:	Original Motif
Direction:	Forward
Position number:	2
Number of overlap:	15
Similarity score:	0.0263267

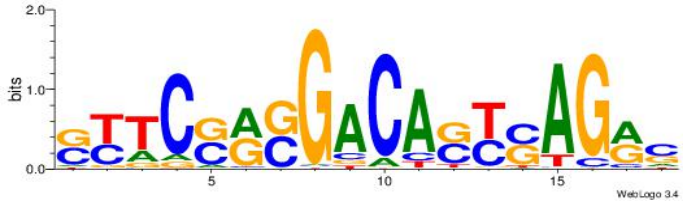
Alignment:

```
SYCTSRSTGTCSYSGARS
-YYAGRVTGGCBYTGR--
```

Original motif Consensus sequence: SYCTSRSTGTCSYSGARS



Reverse complement motif Consensus sequence: SKTCSMSGACASKSAGMS



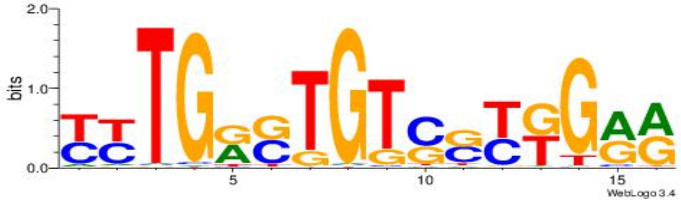
Dataset #:	1
Motif ID:	150
Motif name:	C150
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Forward
Position number:	2

Number of overlap: 15
Similarity score: 0.0287525

Alignment:
KKTGKSTGTSSKRGMM
-YYAGRVTGGCBYTGR

Original motif Consensus sequence: YYCMRSSACASYCARR

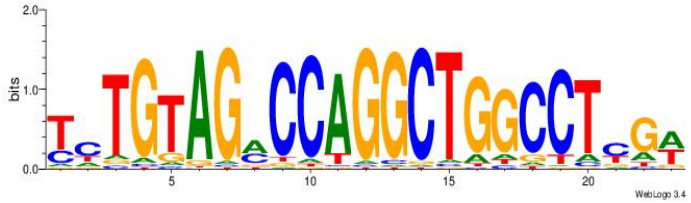
Reverse complement motif Consensus sequence: KKTGKSTGTSSKRGMM



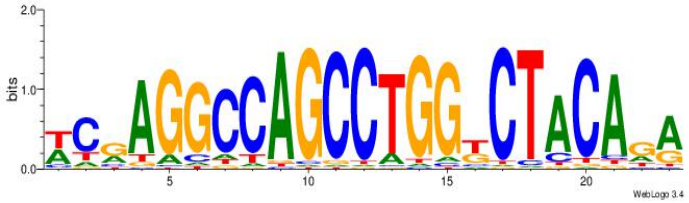
Dataset #: 1
Motif ID: 5
Motif name: C005
Matching format of first motif: Original Motif
Matching format of second motif: Original Motif
Direction: Backward
Position number: 1
Number of overlap: 15
Similarity score: 0.029925

Alignment:
TCTGTAGMCCAGGCTGGCCTYGW
--------YYAGRVTGGCBYTGR

Original motif Consensus sequence: TCTGTAGMCCAGGCTGGCCTYGW



Reverse complement motif Consensus sequence: WCKAGGCCAGCCTGGYCTACAGA

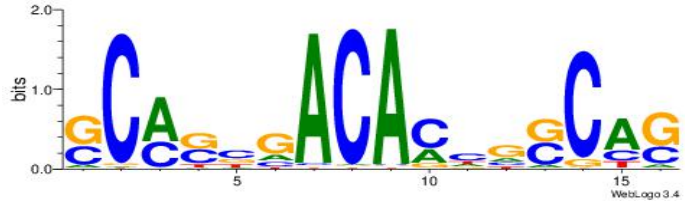


Dataset #:	1
Motif ID:	148
Motif name:	C148
Matching format of first motif:	Original Motif
Matching format of second motif:	Reverse Complement
Direction:	Backward
Position number:	2
Number of overlap:	15
Similarity score:	0.0327492

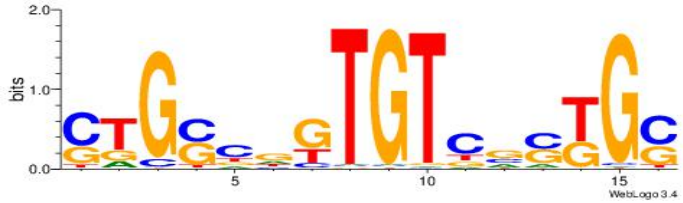
Alignment:

```
STGSCDGTGTCBSYGS
YYAGRVTGGCBYTGR-
```

Original motif Consensus sequence: SCMSBGACACHGSCAS



Reverse complement motif Consensus sequence: STGSCDGTGTCBSYGS



Results created by MOTIFSIM on 06-18-2018 16:00:12
Runtime: 1179.17 seconds

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